NC DEPT. OF IN 2012 APPENDIX		DE SUMMARY		NC
Name Of Project:	CASWELL COUN			
Address: Proposed Use: Dwner Or Authorized Agent:	US 29 PELHAM, N RESTROOM BUIL Weeks Turner Arc	DING	ono: (010) 770 0707	
Dwned By:	Raleigh, NC [] City/County	E-r	one: (919) 779-9797 mail ganderson@wee] State	eksturner.com
Code Enforcement Jurisdiction:	[] City] State	
LEAD DESIGN PROFESS DESIGNER	SIONAL: WEEKS FIRM		CTURE, PA TELEPHONE	E-MAIL
				derson@weeksturner.com
lectrical: Burki ire Alarm:		njamin E. Burke 22038		benburke@nc.rr.com
lumbing: Burke lechanical: Burke	e Design Group Bei e Design Group Bei	njamin E. Burke 22038 njamin E. Burke 22038	(919) 771-1916 (919) 771-1916	benburke@nc.rr.com benburke@nc.rr.com
prinkler - Standpipe: tructural:				
letaining Walls > 5' High other:				
2012 EDITION OF NC CO			dition [] Upfit	
EXISTING: [] Reconstruction CONSTRUCTED	n [X] Altera ORIGINAL USE RES		[] Repair	
RENOVATED	CURRENT USE RES	TROOMS PROP	OSED USE RE	STROOMS
BUILDING DATA CONSTRUCTION TYPE:	[] I-A]	A	
MIXED CONSTRUCTION:	[]I-B []II-B			
SPRINKLERS:	[X]NO []PART	IAL []YES []NFP		
STANDPIPES: FIRE DISTRICT:		CLASS []I [] I FLOOD HAZARD AREA		WEI []DRY YES
BUILDING HEIGHT: MEZZANINE:	22 FEET [X] NO [] YES	NUMBER OF STORIES	:_1_	
ROSS BUILDING AREA		F) PORCH (SF)	TOTAL	NEW
3RD FLOOR 2ND FLOOR	 			
MEZZANINE 1ST FLOOR	3,599 htd.	1,338	4,937	0
BASEMENT TOTAL	3,599 htd.	1,338	4,937	0 SF
ALLOWABLE AREA:				
PRIMARY OCCUPANCY: [] ASSEMBLY	[]A-1 []A-2 []A	-3 [] A-4 [] A-5		
[X]BUSINESS []EDUCATIONAL	[]// []// []//			
[] FACTORY-INDUSTRIAL [] HIGH-HAZARD	[] F-1 Moderate [] H-1 Detonate [[]F-2 Low]H-2 Deflagrate []H-	3 Combust []H-4	Health []H-5 HPM
[] INSTITUTIONAL	[] -1			
[] MERCANTILE [] RESIDENTIAL [] STORAGE	[]R-1 []R-2 []R		HIGH-PILED	
[] UTILITY AND MISC	[] PARKING GARAC	GE[]OPEN []	ENCLOSED	[]REPAIR
SECONDARY OCCUPANCY:	` ,			
SPECIAL OCCUPANCY:	[] 402 [] 403 [] 4 [] 412 [] 413 [] 4	404 []405 []406 [] 414 []415 []416 []	407	9 [] 410 [] 411 9 [] 420 [] 421
SPECIAL PROVISIONS:	[]508.2 []508.3	[]508.4 []508.5	[]508.6 []50	8.7 [] 508.8
MIXED OCCUPANCY:	[]NO [X]YES	SEPARATION: HR.	EXCEPTION:	
[] Incidental Use Separation (508.2) exempt as a Non-Sepa	rated Use (see exception	ns)	
[X] Non-separated Mixed Occ		nation doe (doe exception	10)	
The Required Type Of Limitations For Each O	Construction For The I Of The Applicable Occu	Building Shall Be Determi cancies To The Entire Bu	ned By Applying The ilding. The Most Rest	Height And Area rictive Type Of
•	rmined, Shall Apply To	· ·		
[] Separated Mixed Occupand For Each Story, The A	rea Of The Occupancy	v For Area Calc. Shall Be Such That The S Area For Each Use Shall	Sum Of The Ratios O	f The Actual Floor Area
ACTUAL AREA OF OCCUPA	•	ual area of each ose shall Ual area of occupa		
ALLOWABLE AREA OF OCC		DWABLE AREA OF OCC	UPANCY B	
(A	+) (B)	(C) (I	$+ - \le 1.00$) (F)
STORY DESCR'N BLDG NO. AND USE PER S	AREA TABLÉ 503 5	AREA FOR AREA	O) (E) A FOR ALLOWAB NKLER AREA OF	LE MAXÍMUM
(ACT	UAL)	INCREASE 1 INCR	EASE 2 UNLIMITE	D ₃ AREA ₄
1 BUSINESS 4,9 1 STORAGE 258 (less	937 sf 9,000 s than 10%) 9,000	6,750 6.750	15,750 15,750	31,500 15,750
1. Open Space Area Increases	From Section 506 2 Ar			
A. Perimeter Which Front B. Total Building Perimeter	s A Public Way Or Ope er = 198 (P).	n Space Having 20 Ft Mi	n. Width = 198 (F).	
C. Ratio (F/P) = 1 D. W= Minimum Width O	(F/P). f Public Way = 30	(W).	,	
E. Percent Of Frontage Ir 2. The Sprinkler Increase Per S	Section 506.3 Is As Follo).	
A. Multi-story Building Is B. Single Story Building I. 3. Unlimited Area Applicable I.	s = 300%	tions Group B. E. M. C. A	4 (FO7):	
 Unlimited Area Applicable U Group A Motion Picture (507 4. Max. Building Area = Total N 	'.9); Malls (402.6); And	H-2 Aircraft Paint Hanger	s (507.7)	
4. Max. Building Area = Total N 5. The Maximum Area Of Parki Traffic Control Towers Must	ng Garages Must Com	bly With 406.3.5. The Max	ximum Area Of Air	
ALLOWABLE HEIGHT				
TYPE OF CONSTRUCTION:	TYPE VB			
	ALLOWABLE	INCREASE	SHOWN	CODE
	(TABLE 503)	FOR SPRINKLERS	ON PLANS	REFERENCE

1 (STÓRIES)

TOTAL

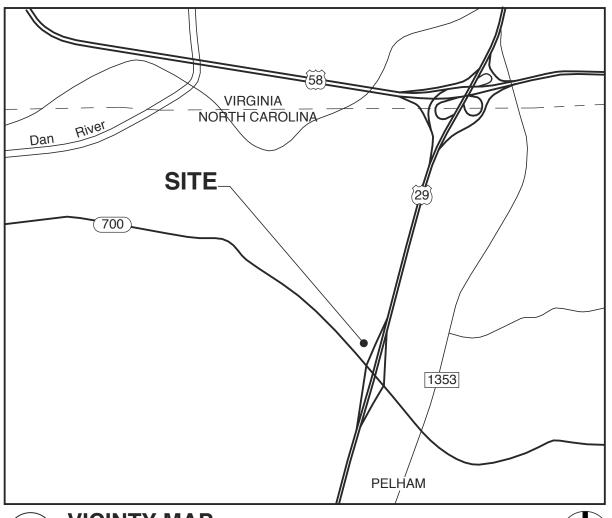
--- (STORÍES + 1)

BUILDING HEIGHT IN STORIES 1 (STÓRIES)

12 APPENDIX B BUIL		I IEE (SAFETY PLAN	QUEET #	/IE DDO\/II	DED)	
BUILDING ELEMENT	FIRE	RATING REQ'D	RATING PROV'D (W/* REDUCTION)	DETAIL # AND SHEET #	DES. # FOR RATED ASS'Y	DES. # FOR RATED PENET'N	DES. # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS GIRDERS, TRUSSES		0					
	ORE THAN 3 ORE THAN 3						
WEST MO SOUTH MO	ORE THAN 3 ORE THAN 3 ORE THAN 3	0' 0					
INTERIOR NONBEARING WALLS AND PARTITIONS EXTERIOR NORTH							
EAST WEST SOUTH			 				
INTERIOR WALL & PARTITIONS FLOOR CONSTRUCTION							
INCLUDING SUPPORTING BEAMS AND JOISTS ROOF CONSTRUCTION		0					
INCLUDING SUPPORTING BEAMS AND JOISTS SHAFTS ENCLOSURES-EXIT							
SHAFTS ENCLOSURES-OTHER CORRIDOR SEPARATION OCCUPANCY SEPARATION			 				
PARTY/FIRE WALL SEPARATION SMOKE BARRIER SEPARATION TENANT SEPARATION			 				
INCIDENTAL USE SEPARATION *INDICATE SECTION NO. PERMI	ITTING REDU	JCTION					
E SAFETY SYSTEM REQUIRE	MENTS						
IERGENCY LIGHTING: [X] YI IT SIGNS: [X] YI RE ALARM: [] YE	ES []NO ES []NO S [X]NO		E DETECTION S HARDWARE:	SYSTEMS:	[]YES []YES	[X]NO [X]NO	
Exterior wall opening area wite Existing structures within 30 fm. Cocupancy types for each area [X] Cocupant loads for each area [X] Exit access travel distances (Common path of travel distances [X] Dead end lengths (1018.4) [X] Clear exit widths for each exit [X]	feet of the pro ea as it related a 1016) nces (1014.3 & t door	posed buins to occup	ilding pant load calcula	ation (Table	1004.1.1)	grass width (1005 1)
Existing structures within 30 f Cocupancy types for each area X Cocupant loads for each area X Exit access travel distances (X Common path of travel distances (Dead end lengths (1018.4)	th respect to dieet of the proper as it related as it related as it related as it related as it follows (1014.3 & it door not load capacin exit door dicating where the ardware (100 and egress lock omagnetic egreith hold-open be windows (1 ire area (902) smoke compa	e fire rate 08.1.10) is and the ess locks devices 029)	ilding pant load calculated and load calculated and	ommodate I	pased on equivalent	provided for p	,
 Existing structures within 30 f Occupancy types for each area Occupant loads for each area Exit access travel distances (Common path of travel distances (Dead end lengths (1018.4) Clear exit widths for each exit Maximum calculated occupant Actual occupant load for each A separate schematic plan into of occupancyseparation Location of doors with panic h Location of doors with electro Location of doors equipped w Location of emergency escap The square footage of each find The square footage of each stance 	th respect to dieet of the prosea as it related and 1016) ances (1014.3 & the door and the load capacinest door dicating where the ardware (100 and egress lock omagnetic egreith hold-open be windows (1 ire area (902) amoke compartable notes the load table notes table notes the load table notes the load table notes the load table notes table notes table notes table	ty each executive fire rate (28.1.10) as and the ress locks (29) at may have the result (40 at may have to occur (40 at m	ilding pant load calculated and load calculated and	ommodate Ind/or roof st	pased on equivalent	provided for p	,
 Existing structures within 30 f Occupancy types for each area X Occupant loads for each area X Exit access travel distances (X Common path of travel distances (Dead end lengths (1018.4) X Clear exit widths for each exit X Maximum calculated occupant X Actual occupant load for each A separate schematic plan into of occupancyseparation Location of doors with panic h Location of doors with delaye Location of doors with electron Location of doors equipped w Location of emergency escap The square footage of each is The square footage of each is Note any code exceptions or ESIGN LOADS: EXISTING TO REN ROOF DEAD LOAD ROOF DEAD LOAD CEILING DEAD LOAD CEILING DEAD LOAD CEILING DEAD LOAD FLOOR LIVE LOAD FLOOR LIVE LOAD FLOOR LIVE LOAD (Uniform)	th respect to differ the proper as it related as it related as it related as it related as it door and load capacing exit door dicating where an ardware (100 ad egress lock omagnetic egreith hold-open be windows (1 ire area (902) amoke compatable notes the mathematic exit door on the windows (1 ire area (1002) amoke compatable notes the mathematical exit door on the windows (1 ire area (1002) amoke compatable notes the mathematical exit door of the windows (1 ire area (1002) amoke compatable notes the mathematical exit door of the windows (1 ire area (1002) amoke compatable notes the mathematical exit door of the windows (1 ire area (1002) amoke compatable notes the mathematical exit door of the windows (1 ire area (1002) amoke compatable notes the mathematical exit door of the windows (1 ire area (1002) amoke compatable notes (ty each executive fire rate (28.1.10) as and the ress locks (29) at may have the result (40 at may have to occur (40 at m	ilding pant load calculated and load calculated and calculated and calculated and calculated amount of delay (1008.1.9.8) 77.4) ave been utilized to structure and calculated and calcul	ommodate Ind/or roof st	pased on equivalent	provided for p	,
[] Existing structures within 30 f [] Occupancy types for each are [X] Occupant loads for each are [X] Exit access travel distances ([X] Common path of travel distant [] Dead end lengths (1018.4) [X] Clear exit widths for each exit [X] Maximum calculated occupant [X] Actual occupant load for each [] A separate schematic plan into of occupancyseparation [] Location of doors with panic into of occupancyseparation [] Location of doors with delaye [] Location of doors with electron [] Location of doors equipped w [] Location of emergency escapt [] The square footage of each into other into oth	th respect to dieet of the proper as it related and 1016) ances (1014.3 & the door and to add capacing exit door dicating where the area (100 and egress lock of the	ty each executive fire rate (28.1.10) as and the ress locks (29) at may have the result (40 at may have to occur (40 at m	ilding pant load calculated and load calculated and load calculated and amount of delay (1008.1.9.8) TO STRUCTUR TO STRUCTUR 100 2000	ommodate Ind/or roof structure of the st	pased on equivalent	provided for p	,
[] Existing structures within 30 f [] Occupancy types for each are [X] Occupant loads for each are [X] Exit access travel distances ([X] Common path of travel distant [] Dead end lengths (1018.4) [X] Clear exit widths for each exit [X] Maximum calculated occupant [X] Actual occupant load for each [] A separate schematic plan into of occupancyseparation [] Location of doors with panic h [] Location of doors with electro [] Location of doors with electro [] Location of doors equipped w [] Location of emergency escapt [] The square footage of each si [] The square footage of each si [] Note any code exceptions or ESIGN LOADS: EXISTING TO REN BUILDING OCCUPANCY CATEGORY ROOF DEAD LOAD [] ROOF LIVE LOAD [] CEILING DEAD LOAD [] CEILING LOAD (Uniform) [FLOOR LIVE LOAD (Concentrated) SNOW LOAD DATA: [GROUND SNOW LOAD SNOW LOAD IMPORTANCE FACTOR SNOW LOAD IMPORTANCE FACTOR SNOW LOAD IMPORTANCE FACTOR SNOW LOAD IMPORTANCE FACTOR [SNOW LOAD SNOW LOAD	th respect to dieet of the proper as it related and 1016) ances (1014.3 & 1016) ances (1014.3 & 1016) ances (1014.3 & 1016) and capacin exit door dicating where the area (100 and egress lock omagnetic egreyith hold-open be windows (1) are area (902) amoke compartable notes the MAIN - NO CHAIN - N	ty each executive fire rate (28.1.10) as and the ress locks (29) at may have the result (40 at may have to occur (40 at m	ilding pant load calculated and load calculated and	ommodate Ind/or roof structure of the st	pased on equivalent	provided for p	,
[] Existing structures within 30 f [] Occupancy types for each are [X] Occupant loads for each are [X] Exit access travel distances ([X] Common path of travel distant [] Dead end lengths (1018.4) [X] Clear exit widths for each exit [X] Maximum calculated occupant [X] Actual occupant load for each [] A separate schematic plan into of occupancyseparation [] Location of doors with panic h [] Location of doors with delaye [] Location of doors with electron [] Location of doors with electron [] Location of doors equipped w [] Location of emergency escapt [] The square footage of each simple in the square footage of eac	th respect to dieet of the proper as it related and 1016) inces (1014.3 & the door not load capacin exit door dicating where the degrees lock of the dieer and the dieer and the dieer and the dieer area (902) smoke compartable notes the dieer and the dieer and the dieer and the dieer area (902) smoke compartable notes the dieer and the dieer and the dieer and the dieer area (902) smoke compartable notes the dieer and th	ty each exercises locks and the ress locks adevices (029) The at may have the ress locks are the ress locks	ilding pant load calcular value and calcular amount of delar (1008.1.9.8) TO STRUCTUR TO STRUCTUR 100 2000 100 100 100	ommodate I ation (Table ommodate I and/or roof st y (1008.1.9) d regarding E II PSF PSF PSF PSF OLBS PSF PSF PSF	pased on equivalent	provided for p	,
Existing structures within 30 of [] Occupancy types for each are [X] Occupant loads for each are [X] Exit access travel distances ([X] Exit access travel distances ([X] Common path of travel distance [] Dead end lengths (1018.4) [X] Clear exit widths for each exit [X] Maximum calculated occupant [X] Actual occupant load for each [] A separate schematic plan in of occupancyseparation [] Location of doors with panic of occupancyseparation [] Location of doors with delayer [] Location of doors with electron [] Location of doors with electron [] Location of doors equipped work [] Location of doors equipped work [] Location of doors equipped work [] The square footage of each simply and the square footage of each simply an	th respect to dieet of the proper as it related and 1016) inces (1014.3 & 1016) inces (1	wind	ilding pant load calculated and load calculated and calculated and calculated and calculated and calculated amount of delay (1008.1.9.8) TO STRUCTUR TO STRUCTUR 100 2000 100	ommodate I ation (Table ommodate I ad/or roof st y (1008.1.9) d regarding E II PSF PSF PSF OLBS PSF PSF KIPS KIPS FT	pased on equivalent to the items a	above	ŕ
Existing structures within 30 of [] Occupancy types for each are [X] Occupant loads for each are [X] Exit access travel distances ([X] Common path of travel distant [] Dead end lengths (1018.4) [X] Clear exit widths for each exit [X] Maximum calculated occupant [X] Actual occupant load for each [] A separate schematic plan in of occupancyseparation [] Location of doors with panic head of the common of occupancyseparation [] Location of doors with electron of doors with electron [] Location of doors equipped where [] Location of doors equipped where [] Location of emergency escaptions of the square footage of each shall be square	th respect to dieet of the proper as it related and 1016) inces (1014.3 & the door not load capacin exit door dicating where the degrees lock of the degrees lock of the degrees lock of the windows (1 dire area (902) smoke comparable notes the management of the degree	wind wind a sto occup 10 10 28.8) 11 28.8 12 38 10 28.8 13 40 28.8 13 40 28.8 14 40 28.8 15 5 6 28 16 6 28 16 7 7 8 16 7 8 17 8 7 8 18 8 7 8 18 9 8 18 9 8 18	ilding pant load calculated and load calculate	ommodate I nd/or roof st y (1008.1.9 d regarding E II PSF PSF PSF PSF O LBS PSF KIPS KIPS FT	cased on equivalent to the items a	novided for p	,

CASWELL COUNTY REST AREA

US 29 PELHAM, NC



VICINTY MAP

GENERAL NOTES

I: FOR THIS PROJECT:

A) THE ARCHITECTS SCOPE OF WORK DOES INCLUDE CONSTRUCTION OBSERVATION. CONSTRUCTION DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ARCHITECT WILL BEAR NO RESPONSIBILITY FOR FAILURE OF THE CONTRACTOR TO FULLY

USE OF THESE CONTRACT DOCUMENTS WILL CONSTITUTE AGREEMENT BY THE CONTRACTOR TO THESE CONDITIONS.

B) "THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION OF THE BUILDINGS" OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A-201, LATEST EDITION. ARE HEREBY MADE PART OF THE CONTRACT DOCUMENTS. IN THE EVENT OF A

II: ALL WORK UNDER THIS CONTRACT SHALL:

COMPLY WITH ALL CONSTRUCTION DOCUMENTS.

A) CONFORM TO STATE, LOCAL AND NATIONAL CODES AND ORDINANCES AS ARE APPLICABLE TO THE WORK INCLUDING BUT NOT LIMITED TO THE NORTH CAROLINA STATE BUILDING CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), NATIONAL ELECTRIC CODES, ASTM SPECIFICATIONS, AND OSHA SAFETY REGULATIONS.

B) COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES AND REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION (EPA). THE COST OF ALL REQUIRED INSPECTIONS AND PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

III: UNLESS OTHERWISE DIRECTED BY THE ARCHITECT. THE CONTRACTOR SHALL:

A) SUPPLY AND PAY FOR ALL LABOR, TRANSPORTATION, MATERIALS, TOOLS, APPARATUS, LÍGHTS, POWER, HEAT, SANITARY FÁCILITIES, WATER, SĆAFFOLDING, AND INCIDENTALS NECESSARY FOR THE COMPLETION OF HIS WORK.

B) INSTALL, MAINTAIN AND REMOVE ALL EQUIPMENT, OTHER UTENSILS OR THINGS USED FOR THE CONSTRUCTION PRIOR TO TURNING OVER THE PROJECT., IF SUCH ITEMS ARE LEFT AFTER COMPLETION OF THE PROJECT, THEY SHALL BECOME PROPERTY OF THE OWNER. THE OWNER MAY PROMPTLY DISPOSE OF SUCH ITEMS, AND WILL NOT BE SUBJECT TO CLAIMS OF THE CONTRACTOR RESULTING FROM SUCH DISPOSITION.

C) CONSTRUCT IN THE BEST AND PROFESSIONAL MANNER, A COMPLETE JOB AND EVERYTHING INCIDENTAL THERETO, AS SHOWN OR REASONABLY IMPLIED FROM THE PLANS, ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT

D) VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE WORK AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES DISCOVERED OR LACK OF REQUIRED INFORMATION TO REQUEST CLARIFICATION. IF THE CONTRACTOR OBSERVES THE CONTRACT DOCUMENTS TO BE CONTRARY TO GOVERNING LAWS, ORDINANCES, CODES, RULES AND REGULATIONS OR OTHERWISE QUESTIONABLE CONDITIONS, HE SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING FOR INSTRUCTIONS PRIOR TO PROCEEDING

E) KEEP THE BUILDING AND SURROUNDING AREA REASONABLY FREE FROM RUBBISH AT ALL TÍMES. AT A MINIMUM, DEBRIS SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS OR AS DIRECTED BY PROJECT EXPEDITOR.

F) LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR MAY NOT INTERFERE WITH ADJACENT UTILITIES UNLESS PRIOR NOTICE AND PERMISSION IS RECEIVED FROM THOSE WHO MAY AS A RESULT OF THIS INTERFERENCE BE AFFECTED.

G) PRIOR TO ANY WORK, CALL "NC ONE CALL CENTER" @ 800-632-4949 AND OTHER LOCATING SERVICES AS TO CONFIRM LOCATION OF UTILITIES.

H) PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING, EACH CONTRACTOR SHALL CLEAN HIS PORTION OF THE WORK, INCLUDING GLASS, HARDWARE FIXTURES, MASONRY, TILE AND MARBLE (USING NO ACID), CLEAN AND WAX ALL FLOORS AS SPECIFIED, AND COMPLETELY PREPARE THE BUILDING FOR USE BY THE OWNER.

I) FILE WITH THE OWNER CURRENT INSURANCE CERTIFICATIONS IN THE AMOUNTS REQUESTED BY THE OWNER FOR BUILDER'S RISK, WORKMEN'S COMPENSATION, COMPREHENSIVE GENERAL LIABILITY, BODILY INJURY AND PROPERTY DAMAGE. THIS INSURANCE SHALL INDEMNIFY THE OWNER AND THE ARCHITECT OF ANY AND ALL COSTS, CLAIMS, SUITS AND JUDGEMENTS FOR PROPERTY DAMAGE AND PERSONAL INJURY (INCLUDING GENERAL) ARISING OUT OF THE CONTRACTOR'S ACTIONS.

J) PROVIDE ALL NECESSARY SAFETY MEASURES FOR THE PROTECTION OF ALL PERSONS OF THE WORK, INCLUDING THE REQUIREMENTS OF THE A.G.C. ACCIDENT PREVENTION MANUAL IN CONSTRUCTION AS AMENDED, AND SHALL FULLY COMPLY WITH ALL STATE LAWS OR REGULATIONS AND NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS TO

PREVENT ACCIDENT OR INJURY TO PERSONS ON OR ABOUT THE LOCATION OF THE WORK. K) CLEARLY MARK OR POST SIGNS WARNING OF HAZARDS EXISTING, AND BARRICADE EXCAVATIONS, ELEVATOR SHAFTS, STAIRWELLS AND SIMILAR HAZARDS. PROTECT

AGAINST DAMÁGE OR INJURY RESÚLTING FROM FALLING MATERIALS AND MAINTAIN ALL

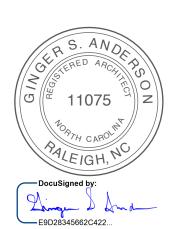
PROTECTIVE DEVICES AND SIGNS THROUGHOUT THE PROGRESS OF THE WORK

D	RAWING INDEX
A0.1 A0.2 A0.3	COVER SHEET LIFE SAFETY PLAN SITE PLAN
SD01 SD02 SD03	SITE DEVELOPMENT PLAN SITE LAYOUT DETAILS SITE PAVEMENT DETAILS
A2.1	EXIST. FLOOR PLAN-DEMO REV. FLOOR PLAN RCP & ROOF PLAN FINISH PLAN INT. ELEVATIONS & DETAILS ELEVATIONS ELEVATIONS SECTIONS SCHEDULES & DETAILS DETAILS
P1 P2 P3 P4 P5	PLUMBING SPECIFICATIONS EXISTING DEMO PLUMBING PLAN DWV PLAN SUPPLY PLAN RISERS
M1 M2 M3	HVAC SCHUDULES EXISTING DEMO HVAC PLAN REV. HVAC PLAN
E1 E2 E3 E4 E5	ELECTRICAL LEGENDS/DETAILS EXISTING LIGHTING PLAN REVISED LIGHTING PLAN EXISTING POWER PLAN REVISED POWER PLAN

WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com





STATE ID# 16-16107-01A

CASWELL COUNTY

PELHAM, NORTH CAROLINA

PROJECT TITLE

REST AREA

PROJECT NO.

DRAWING TITLE

SHEET 1

PLOT DATE

REVISION

COVER SHEET

1504b

WBS ELEMENT 51213.022

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget.

VENDING AREA/ATTIC ACCESS

ELECTRICAL DETAILS

PANEL SCHEDULES/SERIVCE RISER

THERMAL ENVELOPE

Method of Compliance:

] Prescriptive --- % Glazed Wall Area Performance [] Energy Cost Budget

Roof/ceiling Assembly (each assembly)

Description of assembly existing to remain - R-30 batt insulation at attic floor

U-Value of total assembly R-Value of insulation

Skylights in each assembly

U-Value of skylight

Total square footage of skylights in each assembly

Exterior Walls (each assembly)

Description of assembly existing R-19 batt insulation, replace in kind as needed U-Value of total assembly

R-Value of insulation

Openings (windows or doors with glazing) U-Value of assembly 0.32

Shading coefficient 0.33 Projection factor <u>0.40</u> Low-e required, if applicable

Door R-Values

Walls adjacent to unconditioned space (each assembly) Description of assembly na

U-Value of total assembly R-Value of insulation

Openings (windows or doors with glazing)

U-Value of assembly Low-e required, if applicable

Door R-Values

Slab heated

Walls below grade (each assembly) Description of assembly na

U-Value of total assembly R-Value of insulation

Floors over unconditioned space (each assembly) Description of assembly <u>na</u>

U-Value of total assembly R-Value of insulation Floors slab on grade (each assembly)

Horizontal/Vertical requirement

Description of assembly <u>existing to remain</u> U-Value of total assembly R-Value of insulation

This original sheet is 22" x 34"; other dimensions

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©

11/3/16 00/00/08

OF



WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com



LEGEND

---- EGRESS PATH

C.P.T. = COMMON PATH OF TRAVEL

AREAS

EXISTING REST AREA

1,679 SF EXISTING VISITOR CENTER

EXISTING PORCH AREA 1,338 SF

4,937 SF **TOTAL AREA**

EGRESS REQ. & CODE REF.

REST AREA USE: BUSINESS 1,920 SF/100 = 20 PEOPLE

VISITOR CENTER USE: BUSINESS 1,679 SF/100 = 17 PEOPLE

20 x 0.2" = 4.0" CLEAR EGRESS WIDTH PER 1005.1 OF NCSBC

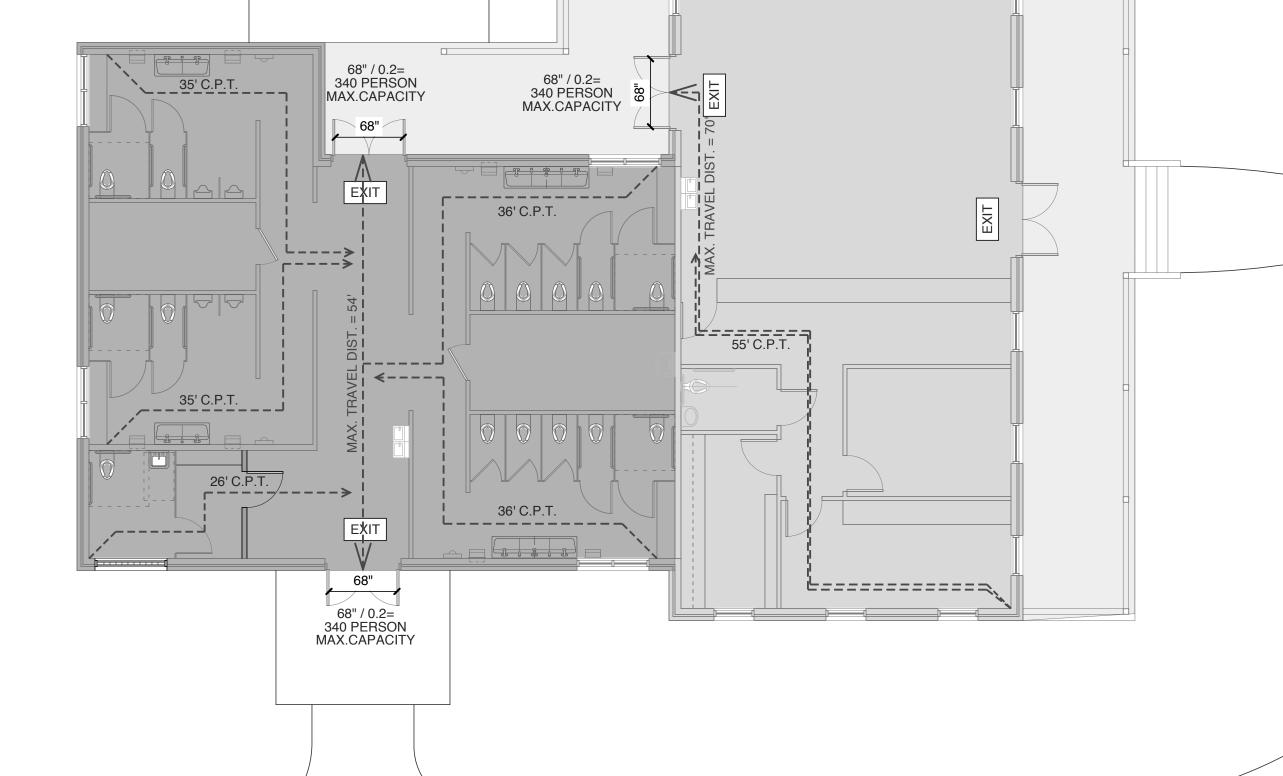
SINGLE EXIT PER TABLE 1015.1 (LESS THAN 49 PERSONS) & 1014.3 (LESS THAN 100 FT. EGRESS TRAVEL) OF NCSBC

DOORS TO HAVE 32" MIN. CLR. PER 404.2.2 OF ANSI A117.1

LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"

THE CLEAR WIDTH OF INTERIOR ACCESSIBLE ROUTE IS 36" MIN. PER 403.5 OF ANSI A117.1



STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE **CASWELL COUNTY REST AREA**

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. 1504b

DRAWING TITLE **LIFE SAFETY PLAN**

SHEET 2 OF 13

PLOT DATE

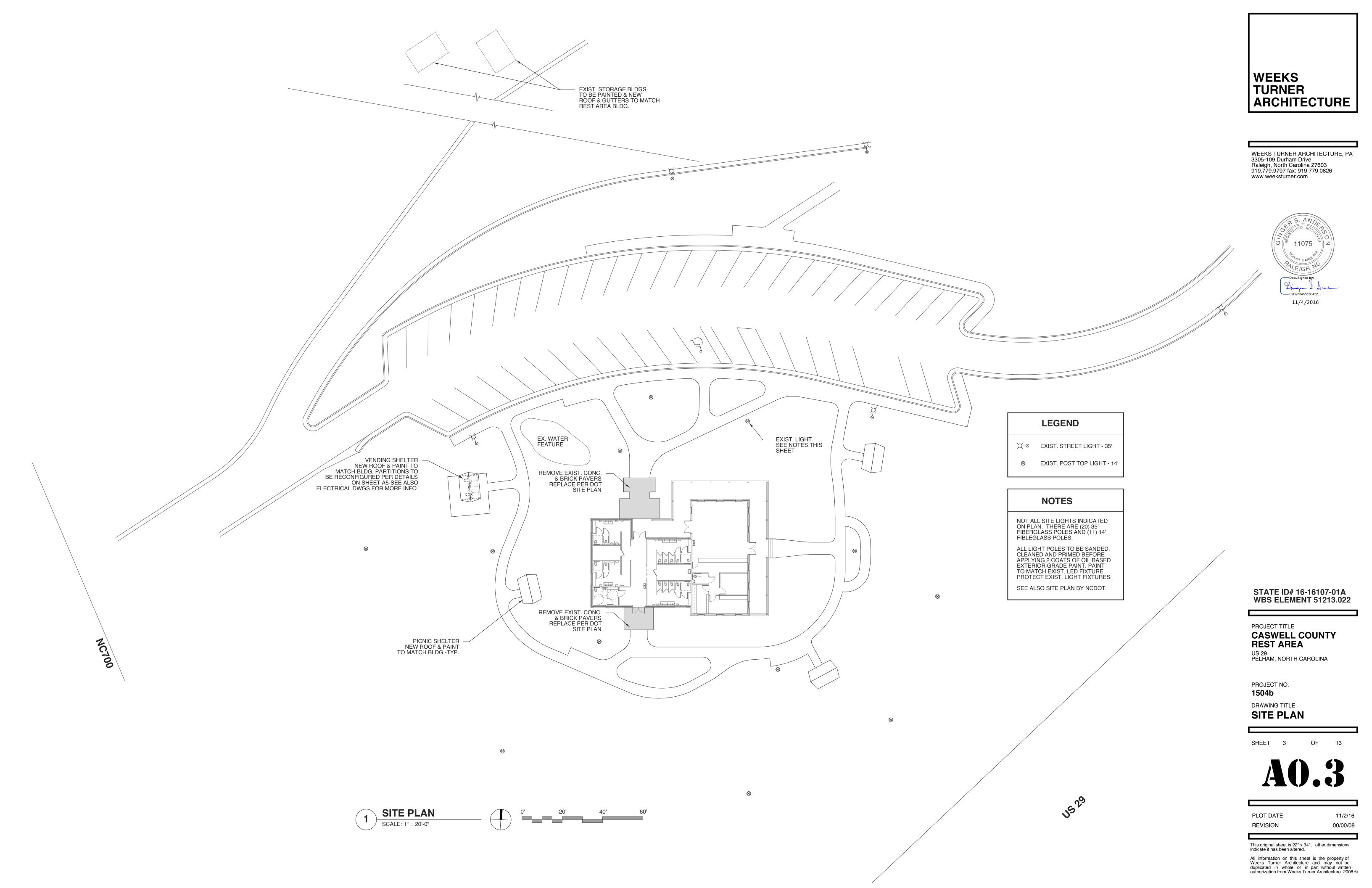
REVISION

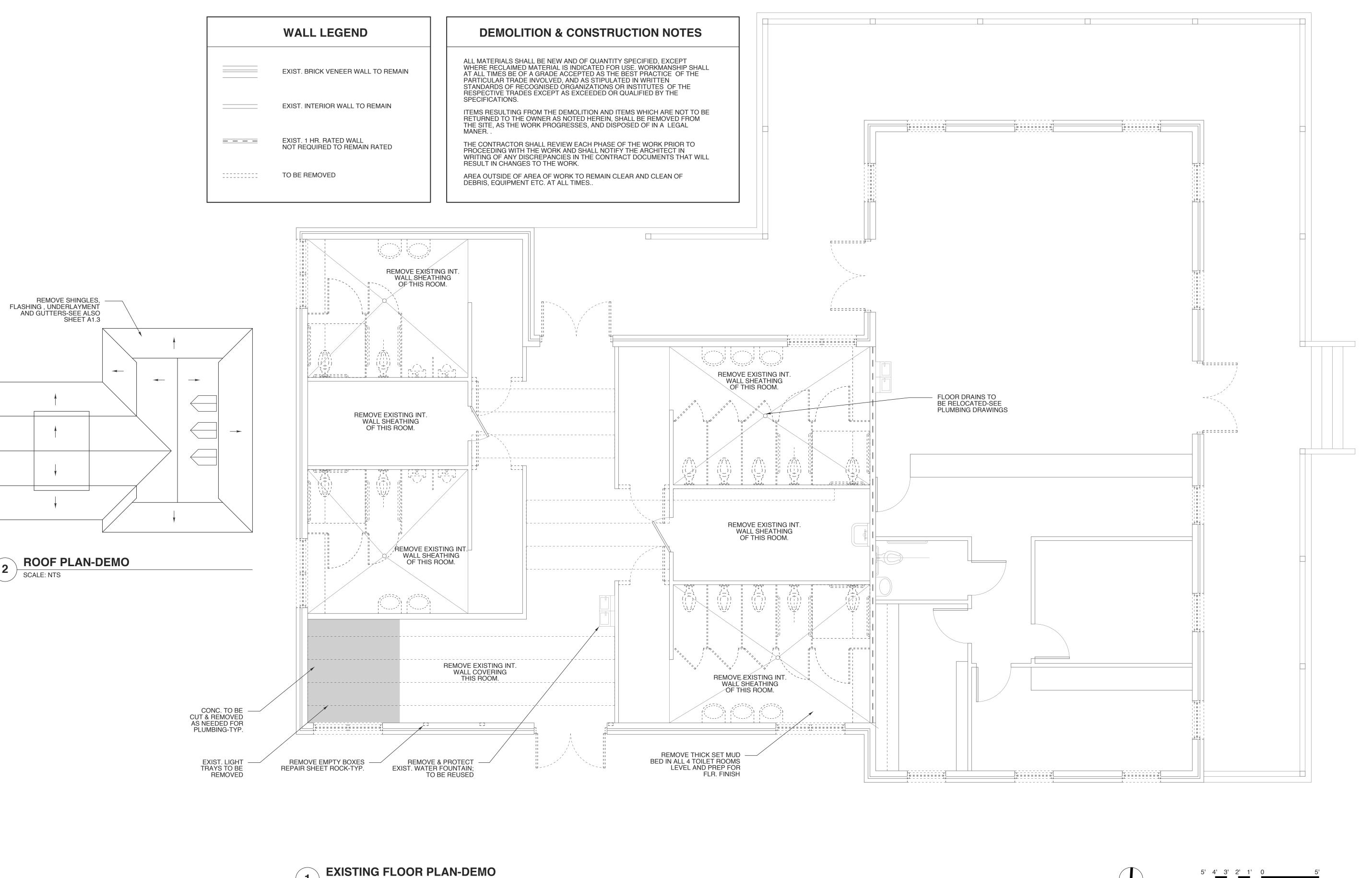
This original sheet is 22" x 34"; other dimensions indicate it has been altered.

11/3/16

00/00/08

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©





SCALE: 1/4" = 1'-0"

WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com



STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE

CASWELL COUNTY

REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. **1504b**

DRAWING TITLE **EXIST. FLOOR PLAN**

SHEET 4 OF 13

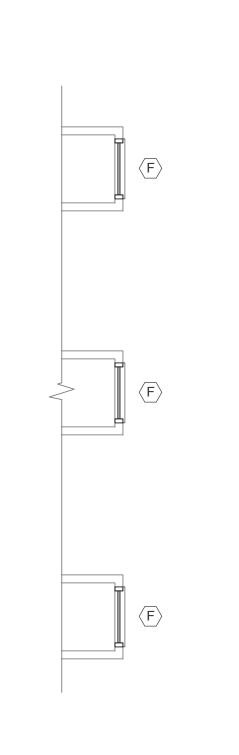
A1.1

PLOT DATE REVISION

11/2/16 00/00/08

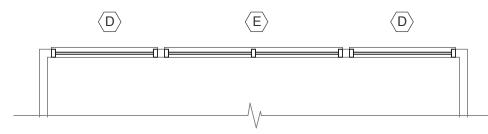
This original sheet is 22" x 34"; other dimensions indicate it has been altered.

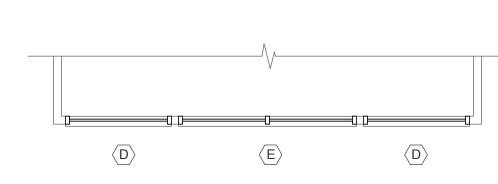
All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©



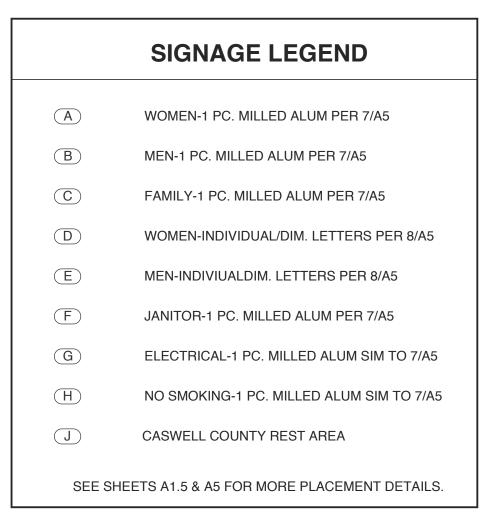
DORMER WINDOWS

SCALE: 1/4" = 1'-0"



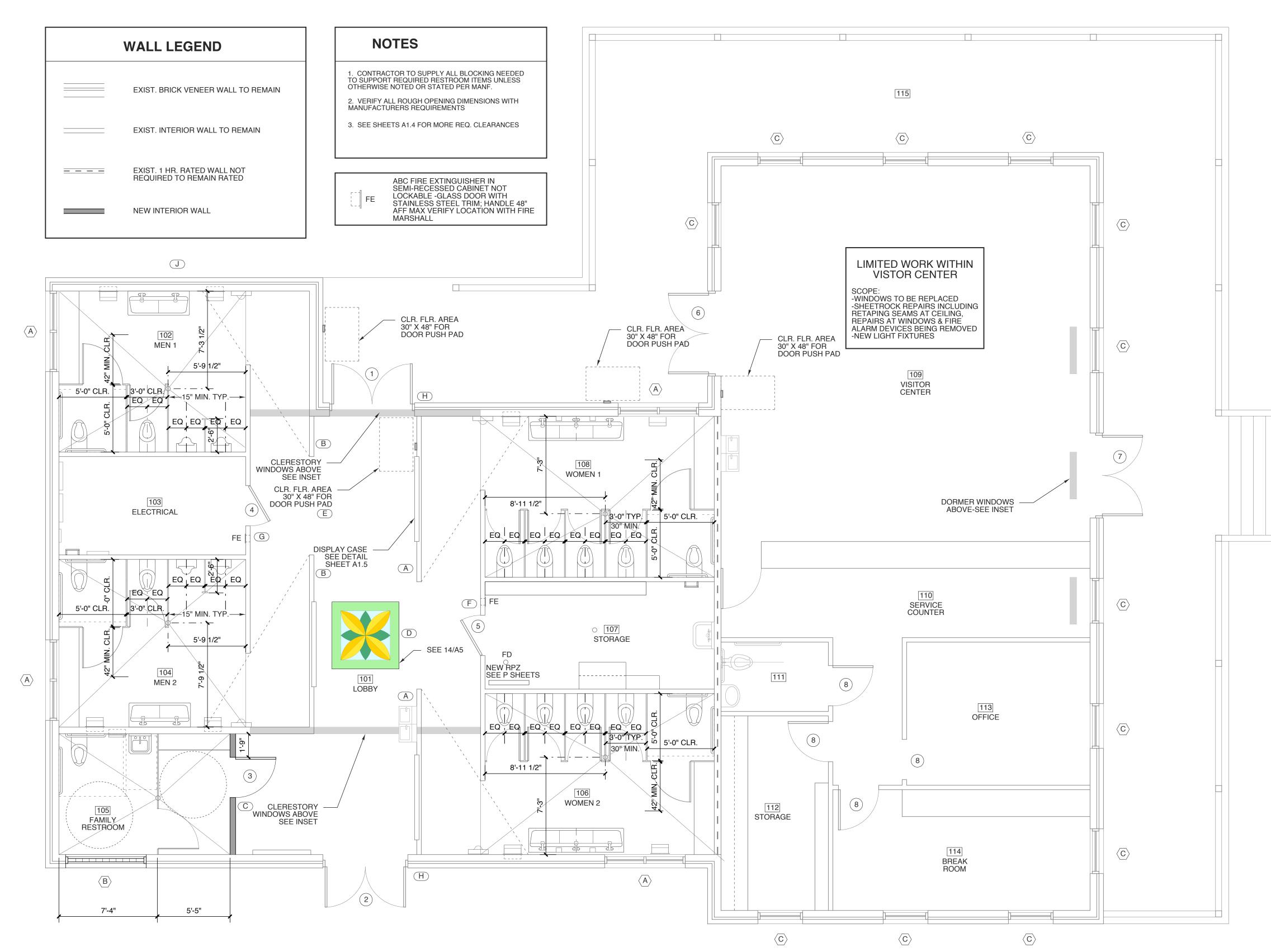


CLERESTORY WINDOWS SCALE: 1/4" = 1'-0"



REVISED FLOOR PLAN

SCALE: 1/4" = 1'-0"



WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com



STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE **CASWELL COUNTY REST AREA**

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. 1504b

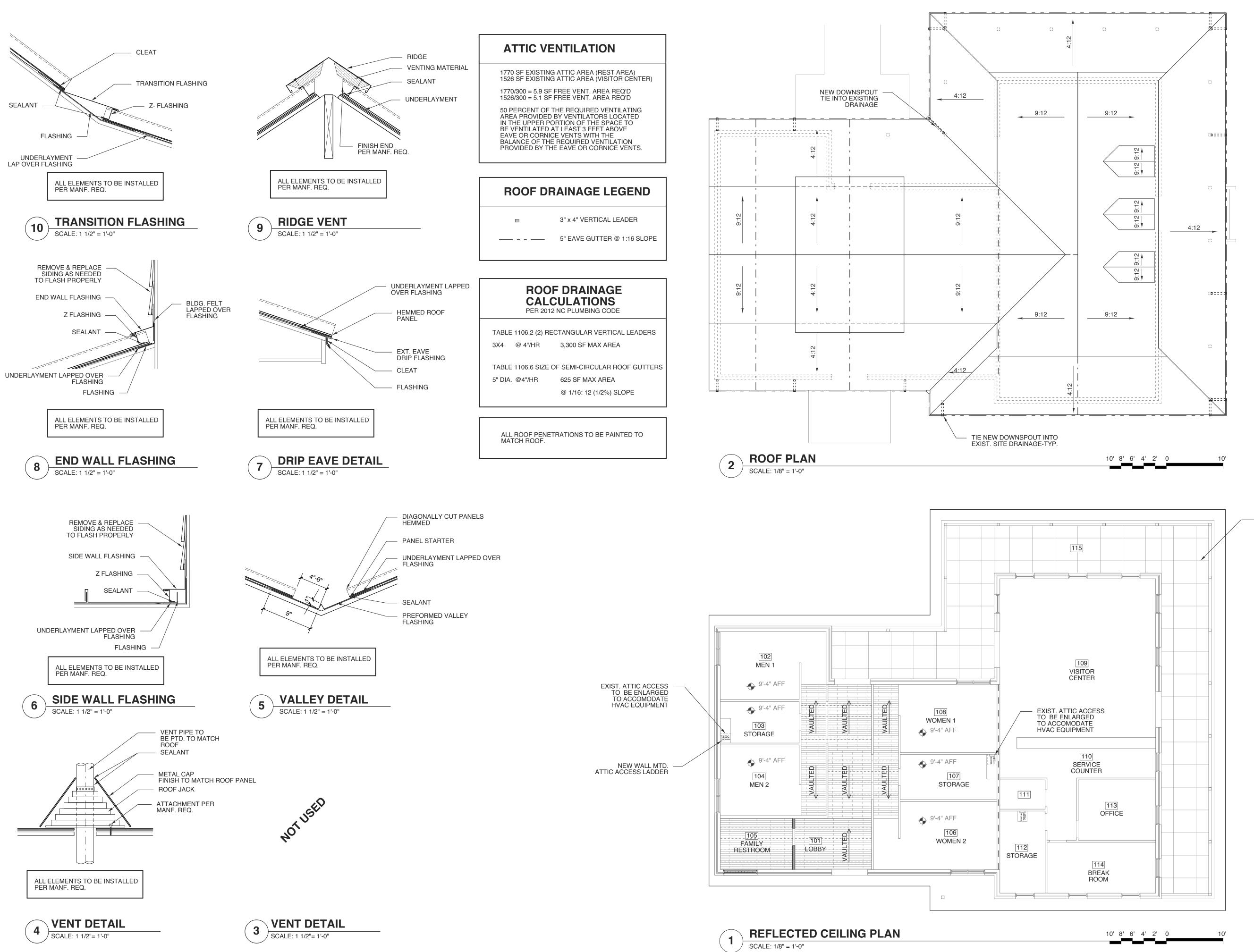
DRAWING TITLE **REV. FLOOR PLAN**

SHEET 5 OF

PLOT DATE REVISION

11/2/16 00/00/08

This original sheet is 22" x 34"; other dimensions indicate it has been altered. All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©



WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com



ON 4'-0" GRID TO CONCEAL PANEL JOINTS-PTD. TO MATCH CLG. COLOR ADJ. GRID TO CENTER

> STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE

CASWELL COUNTY

REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. **1504b**

RCP & ROOF PLAN

SHEET 6 OF 13

A1.3

PLOT DATE REVISION

00/00/08

11/2/16

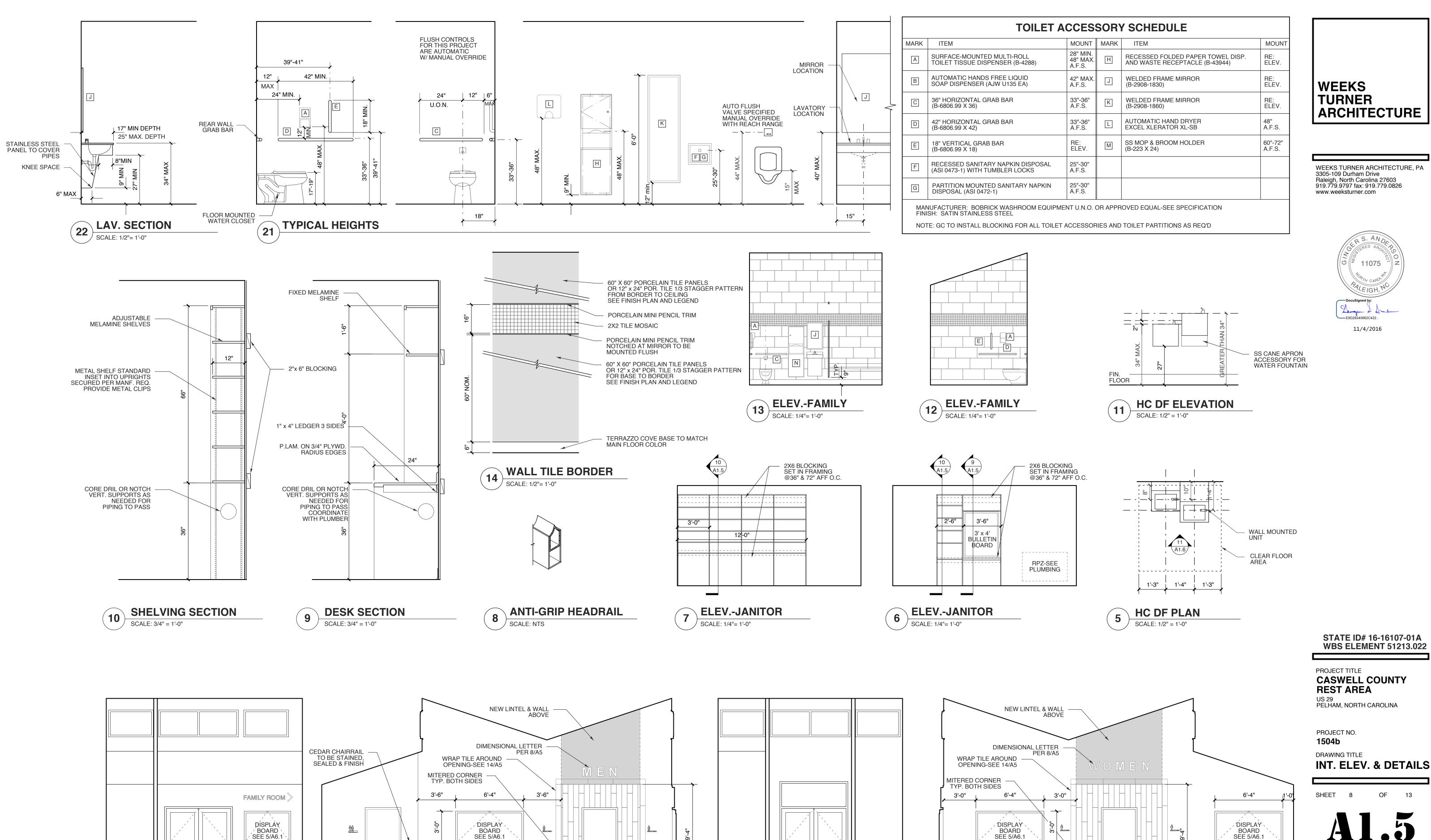
This original sheet is 22" x 34"; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©



SOLID COLOR REINFORCED COMPOSITE

This original sheet is 22" x 34"; other dimensions indicate it has been altered. All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©



ELEV.-LOBBY

SCALE: 1/4"= 1'-0"

ELEV.-LOBBY-LOOKING TOWARD MEN

SCALE: 1/4"= 1'-0"

11/2/16 PLOT DATE

REVISION

ELEV.-LOBBY-LOOKING TOWARD WOMEN

SCALE: 1/4"= 1'-0"

OF

00/00/08

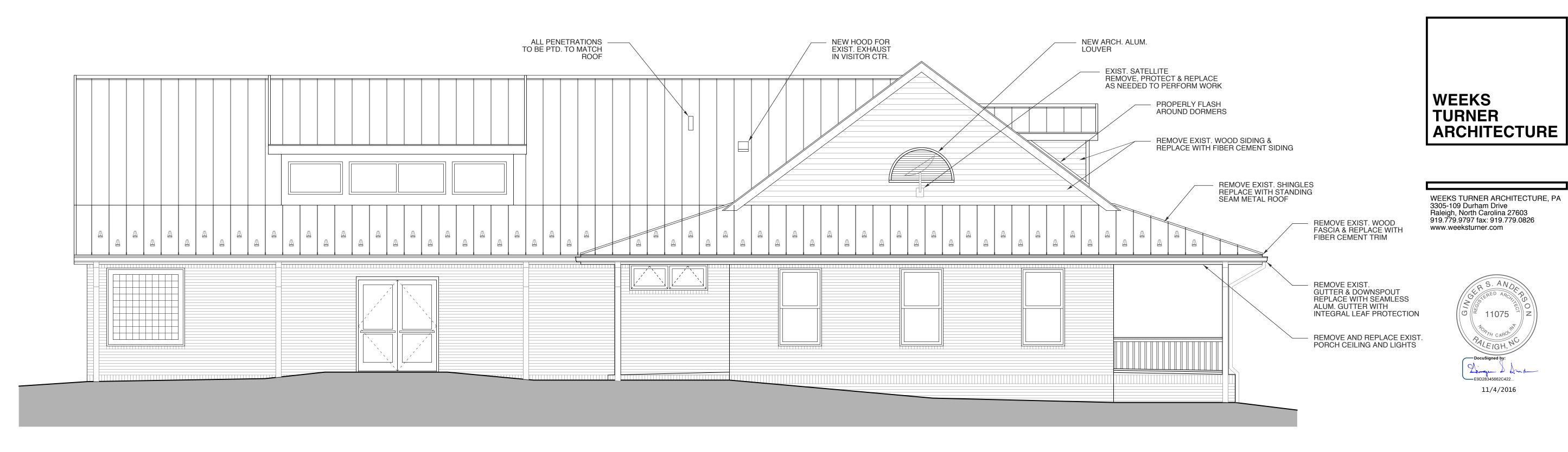
11075

11/4/2016

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

authorization from Weeks Turner Architecture. 2008 ©

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written



SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE **CASWELL COUNTY REST AREA**

US 29 PELHAM, NORTH CAROLINA

PROJECT NO.

1504b

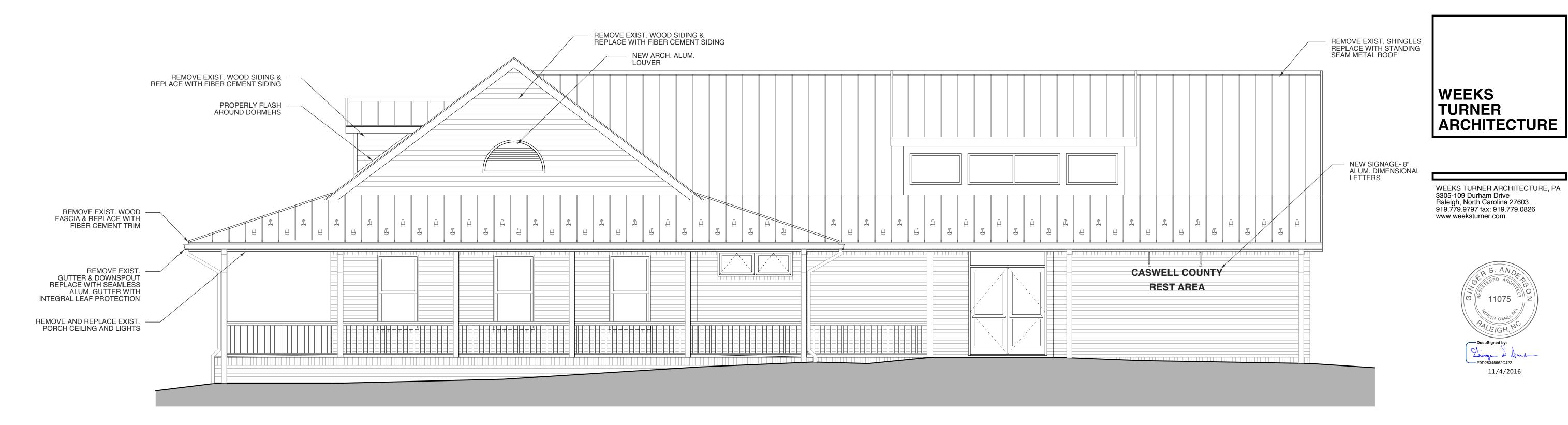
DRAWING TITLE **ELEVATIONS**

SHEET 9 OF 13

PLOT DATE

11/2/16 REVISION 00/00/08

This original sheet is 22" x 34"; other dimensions indicate it has been altered. All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©



STATE ID# 16-16107-01A WBS ELEMENT 51213.022

11/4/2016

PROJECT TITLE CASWELL COUNTY REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. 1504b DRAWING TITLE

ELEVATIONS

SHEET 10

PLOT DATE REVISION

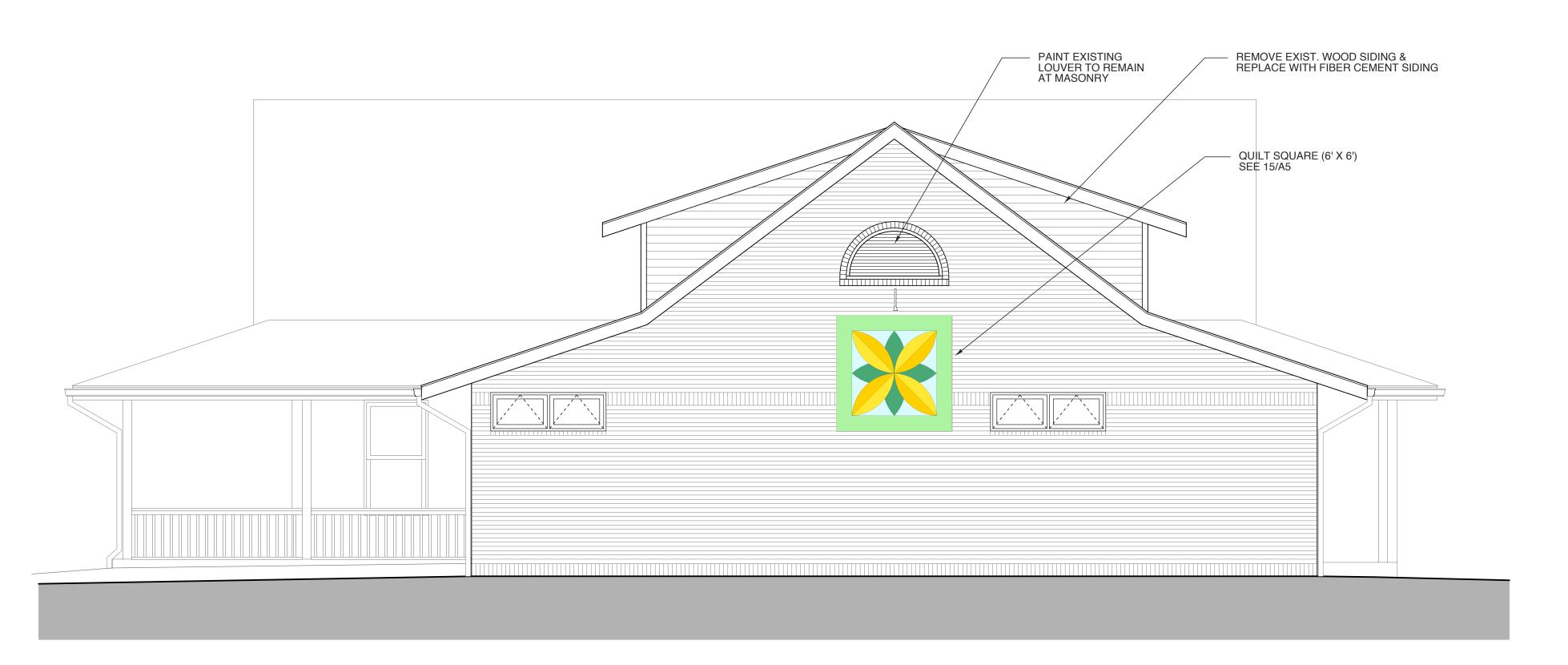
This original sheet is 22" x 34"; other dimensions indicate it has been altered. All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©

11/2/16

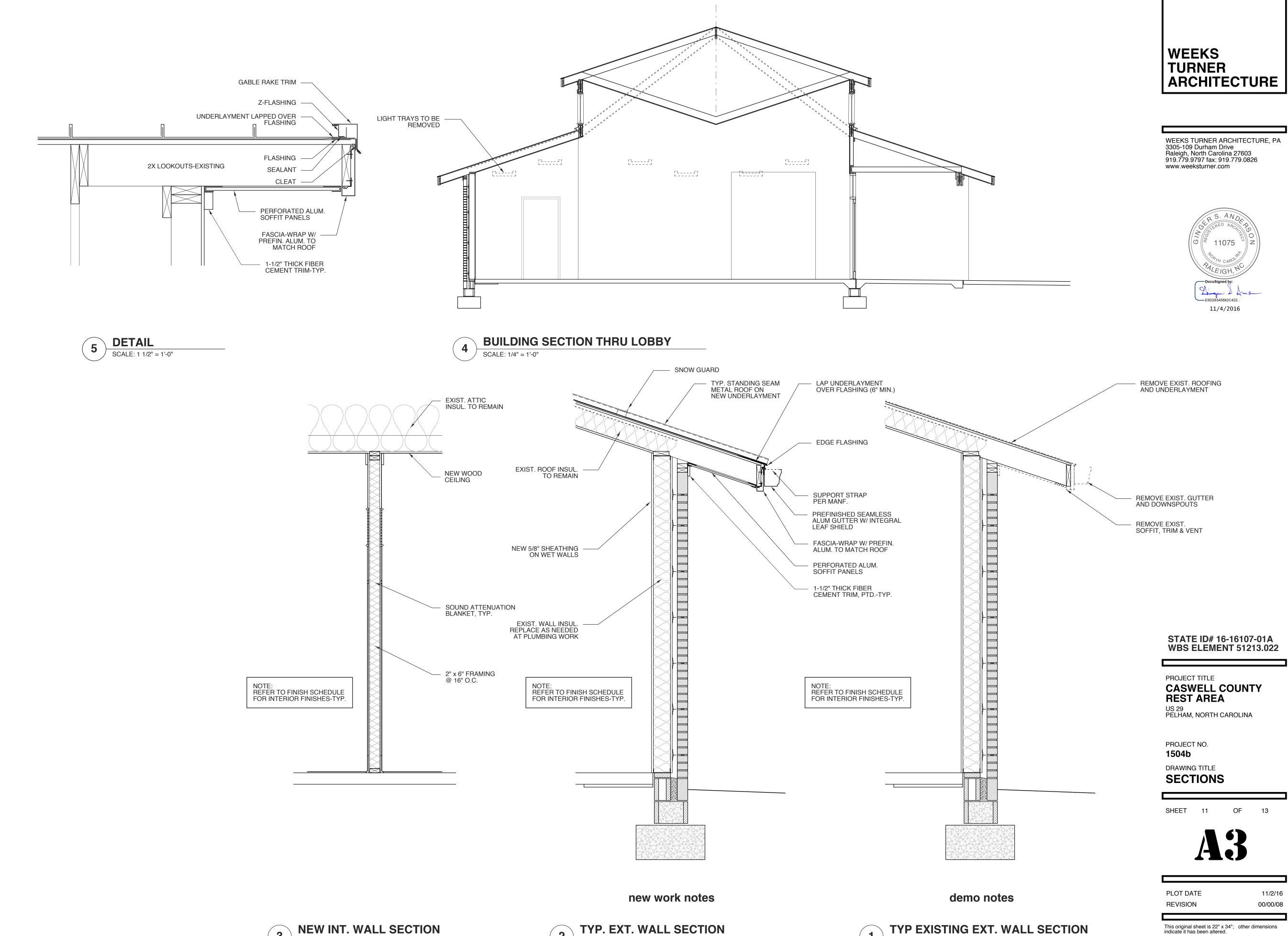
00/00/08

NORTH ELEVATION

SCALE: 1/4" = 1'-0"



WEST ELEVATION SCALE: 1/4" = 1'-0"



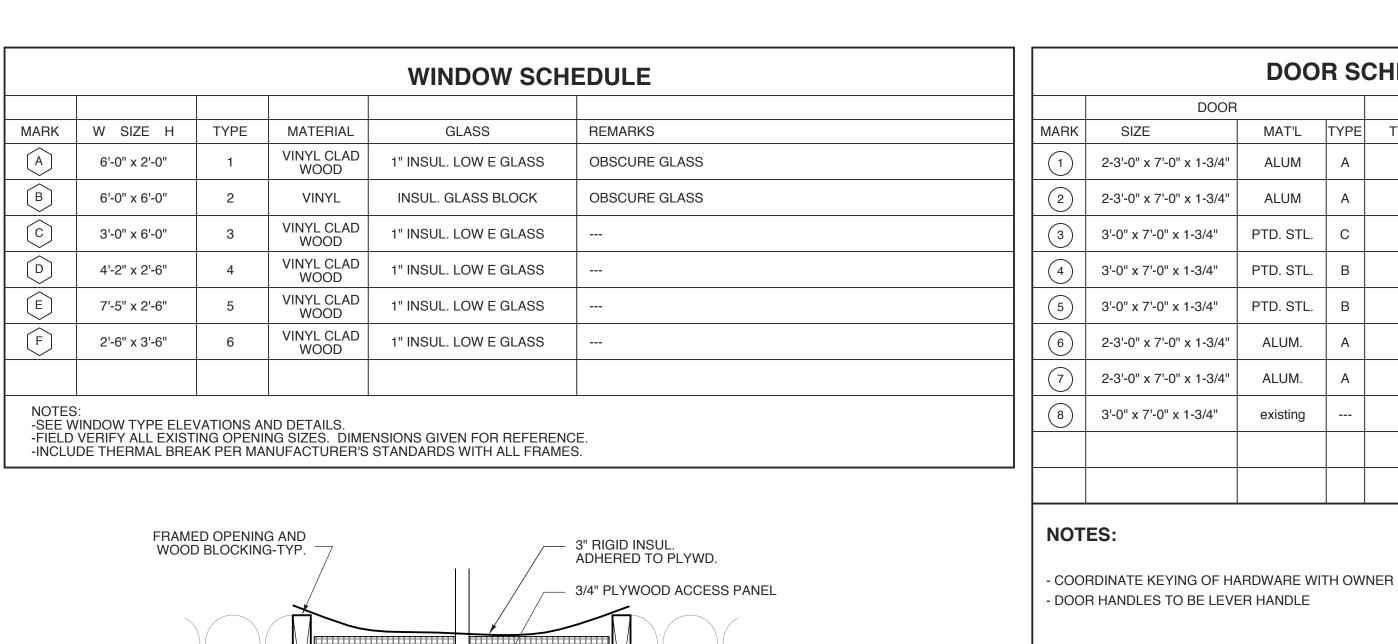
SCALE: 3/4" = 1'-0"

SCALE: 3/4" = 1'-0"

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©

SCALE: 3/4" = 1'-0"



20" X 30"

SIZE REQUIRED FOR EQUIPMENT-TYP.

HEAD/ JAMB

THRESHOLD

INT. HM FRAME

CAULK

MINIMUM OPENING OR

DRYWALL BOTH SIDES

HOLLOW METAL FRAME

VINYL REDUCING STRIP

(IF REQUIRED)

CAULK BOTH SIDES

5/8" TYPE X DRYWALL

1X PTD WOOD TRIM

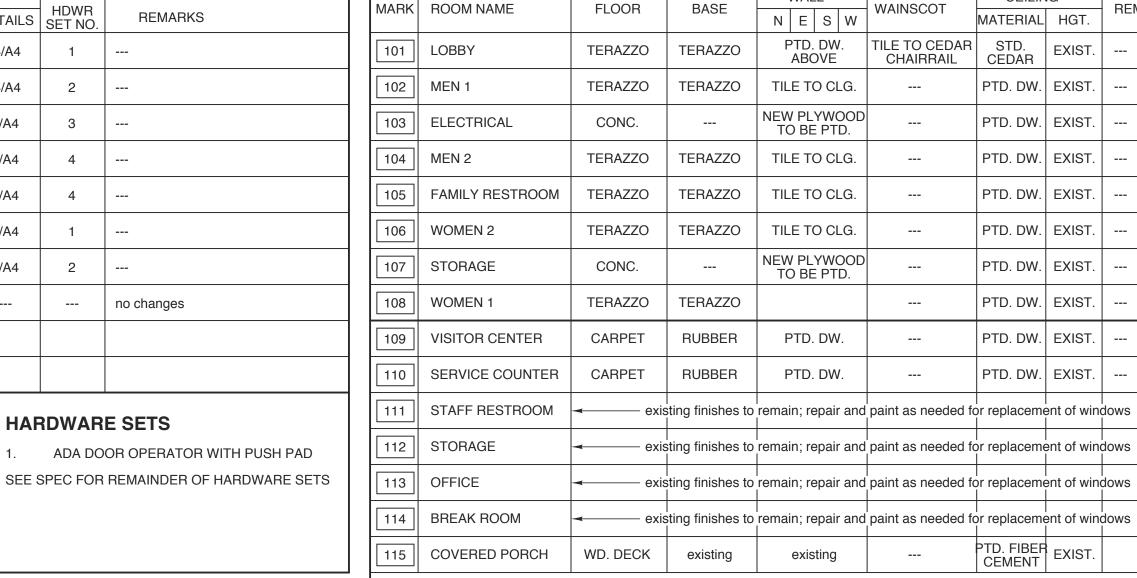
HEAD

FIXED WINDOW

SCALE: 1-1/2" = 1'-0"

	DOOR SCHEDULE												
	DOOR			FRA	ME								
MARK	SIZE	MAT'L	TYPE	TYPE	DETAILS	HDWR SET NO.	REMARKS						
1	2-3'-0" x 7'-0" x 1-3/4"	ALUM	А	Α	4/A4	1							
2	2-3'-0" x 7'-0" x 1-3/4"	ALUM	Α	В	4/A4	2							
3	3'-0" x 7'-0" x 1-3/4"	PTD. STL.	С	С	8/A4	3							
4	3'-0" x 7'-0" x 1-3/4"	PTD. STL.	В	С	8/A4	4							
5	3'-0" x 7'-0" x 1-3/4"	PTD. STL.	В	С	8/A4	4							
6	2-3'-0" x 7'-0" x 1-3/4"	ALUM.	А	В	4/A4	1							
7	2-3'-0" x 7'-0" x 1-3/4"	ALUM.	Α	В	4/A4	2							
8	3'-0" x 7'-0" x 1-3/4"	existing					no changes						

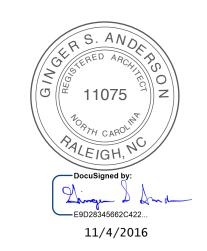
HARDWARE SETS

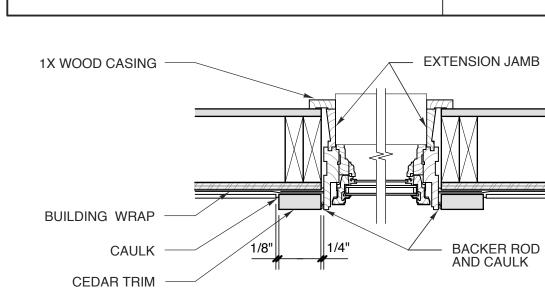


SEE INT. ELEVATIONS (A1.5) AND FINISH PLAN (A1.4) FOR MORE INFORMATION ON WALL FINISHES.

WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com





BACKER ROD

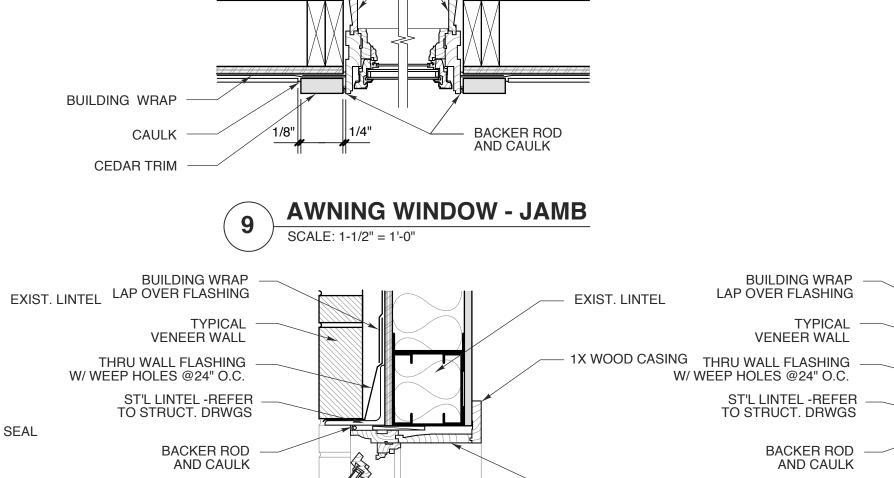
BRICK SILL (SLOPE MORTAR JOINTS)

SOLID SURFACE

AND CAULK

THRU-WALL

FLASHING W/ WEEP HOLES



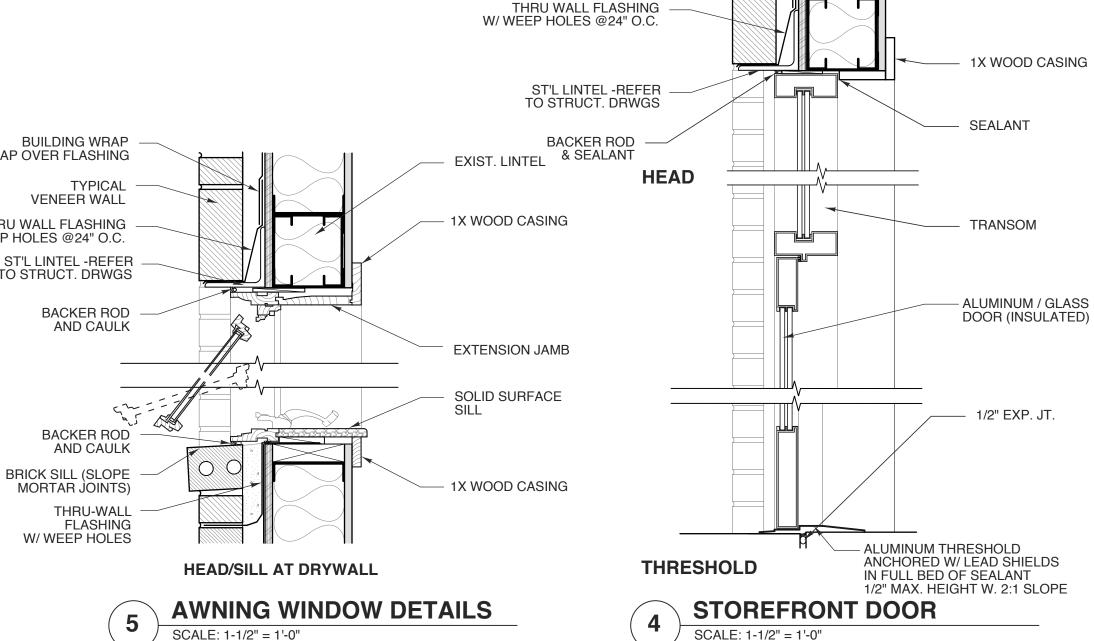
HEAD/SILL AT TILE

AWNING WINDOW DETAILS

EXTENSION JAMB

SOLID SURFACE SILL

1X WOOD CASING



BUILDING WRAP LAP OVER FLASHING

> **TYPICAL** VENEER WALL

ROOM FINISH SCHEDULE

CEILING

MATERIAL HGT.

PTD. DW. EXIST.

PTD. FIBER EXIST.

CEMENT

EXIST.

STD.

CEDAR

CHAIRRAIL

REMARKS / NOTES

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE **CASWELL COUNTY REST AREA** US 29 PELHAM, NORTH CAROLINA

PROJECT NO.

1504b DRAWING TITLE

SCHEDULES/DETAILS

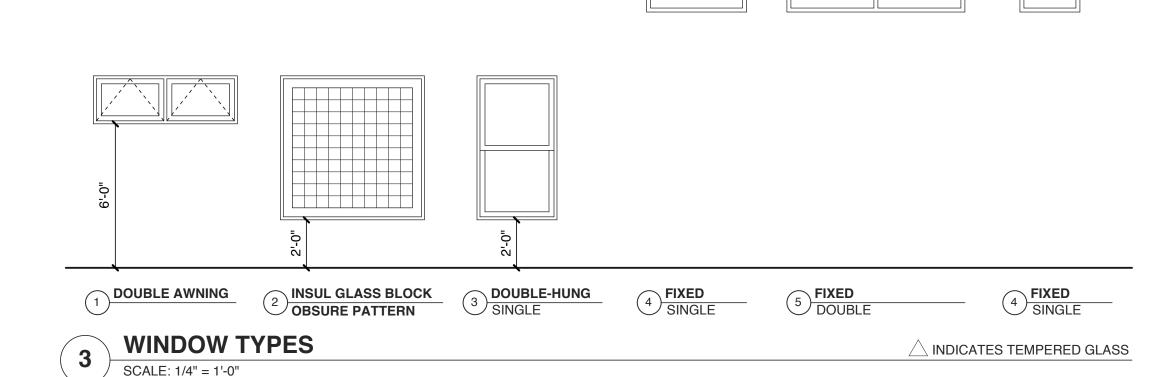
OF SHEET 12

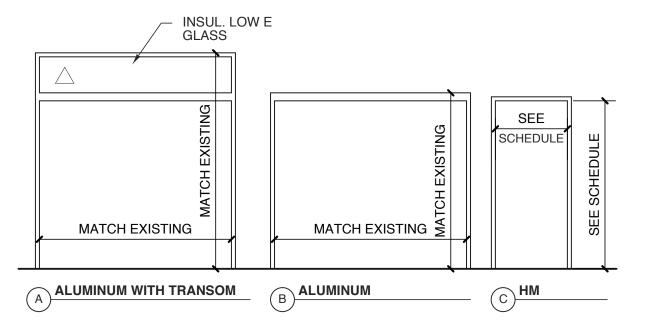
PLOT DATE REVISION

This original sheet is 24" x 36"; other dimensions indicate it has been altered. All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©

11/2/16

00/00/08





DOOR FRAME TYPES SCALE: 1/4" = 1'-0"

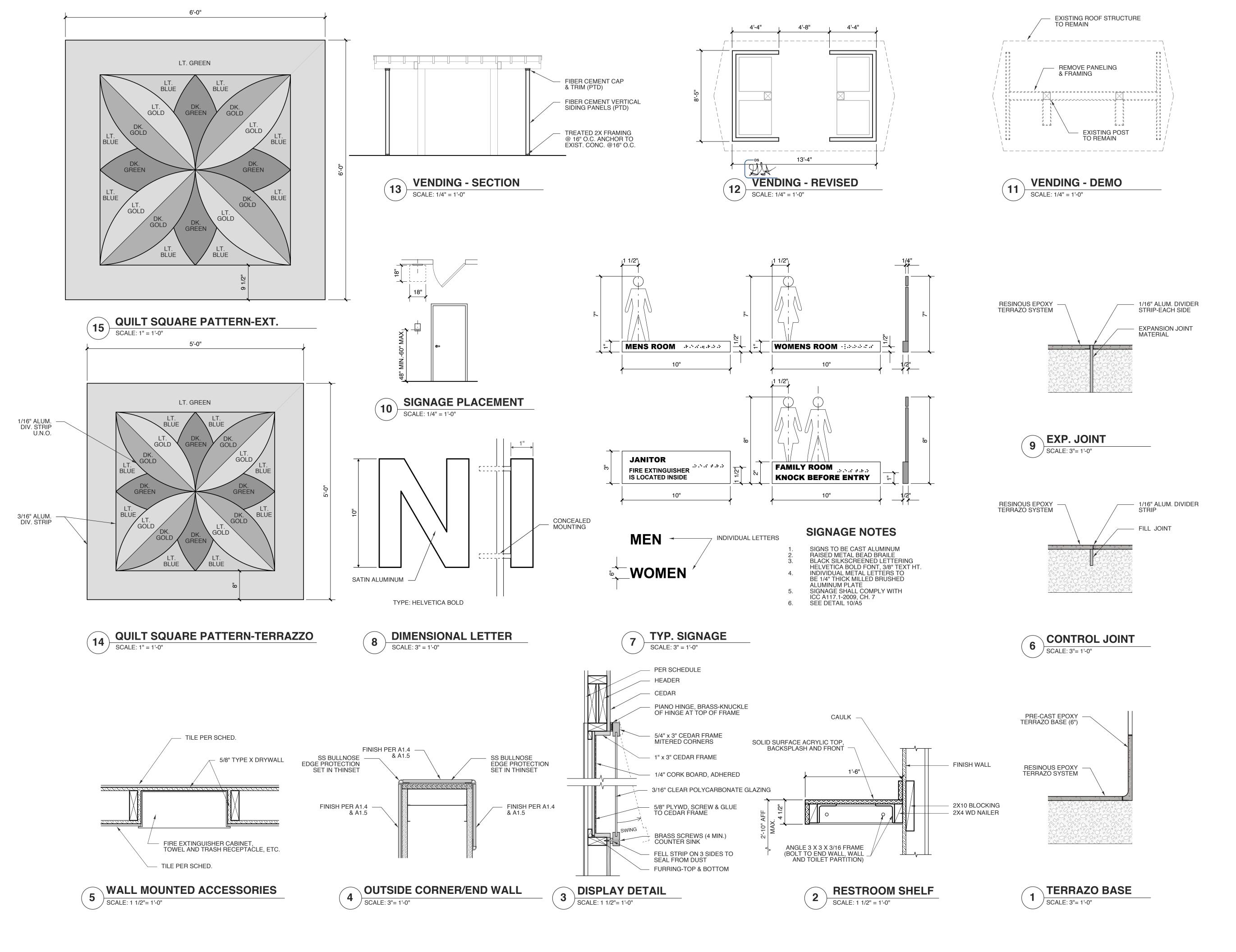
A ALUM. SWINGING B PTD. STL-INSUL CORE SS KICK PLATE SS KICK PLATE INDICATES TEMPERED **DOOR TYPES** GLASS BOTH PANES SCALE: 1/4" = 1'-0"

INSUL. LOW E

GLASS

OBSCURE SAFETY

TTD. STL-INSUL CORE



WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com



STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE

CASWELL COUNTY

REST AREA

US 29

US 29 PELHAM, NORTH CAROLINA

PROJECT NO.

1504b

DETAILS

SHEET 13 OF 13



PLOT DATE REVISION

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be

duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2008 ©

11/3/16

00/00/08

DIVISION 15A - PLUMBING

1.1 DESCRIPTION OF THE WORK

- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- 1. Plumbing fixtures, water heaters, and any other
- equipment necessary 2. Cold and hot water piping and insulation.
- DWV piping. 4. Connection of all equipment; drain, vent,
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards
- insofar as they apply. 1. The National Electrical Code.

4. All local codes and ordinances.

- 2. 2012 N.C. Building Code Plumbing Edition 3. American Society of Sanitary Engineering Standard 1010.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.
- D. The Plumbing Contractor shall be licensed in the State of
- North Carolina and have all local licenses required for the work. E. Obtain all permits, licenses, inspections, etc., required for the work,
- and pay for the same.
- A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner. 1.3 COORDINATION
- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.
- C. Coordinate all exterior piping connections w/Architect, site contractor/plans. Verify manhole elevations and provide backwater valves as required if flood level rims are below next upstream manhole cover elevation. Fixtures with flood level rims above upstream manhole shall not discharge thru bw valve. Notify engineer of backwater valve requirement, any issue prior to bid. 1.4 SHOP DRAWINGS
- A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly

PART 2 - PRODUCTS

- 2.1 FIXTURES
- A. Each fixture shall be properly supported from the building structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes supplying the fixtures must also be held rigidly in place.
- B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.
- C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.
- D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines, refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures. E. Provide trap primers for all floor drains in areas not served by hose bibbs.

- A. Drain waste: All waste piping shall be Schedule 40 PVC-DWV with the following exceptions: Use cast iron piping in all return air plenums and Use ABS or cast iron piping for drainage of fluid temperature greater than 140 deg. F for a minimum distance of 10'-0".
- B. Hot and cold water piping above grade: Type "L" copper w/solder joints (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22) PEX piping with copper fittings may be used with owner/tenant approval. and as allowed per code.
- C. Cold water piping below grade: Type "K" copper (ASTM-88A) soft drawn.
- D. Hangers: Use pipe hangers where required on 8-foot centers with saddles to avoid crushing insulation.
- E. Solder: 95/5. Lead free.
- F. Unions: Provide unions where indicated on drawings, in long runs of piping (except drainage) and at equipment to provide convenient disassembly. Provide dielectric unions when connecting copper tubing to equipment and piping made of ferrous materials.

2.3 CLEANOUTS

- A. Hex plugs in rough areas: Recessed plugs with cover plates in exposed locations.
- 2.4 SHOCK ARRESTERS
- A. Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for qualify construction. Provide for all quick closing valves.

PART 3 - EXECUTION

- 3.1 CONNECTIONS
- A. This contract includes complete connection of cold water, hot water, drainage, and vent piping as required. All fittings, valves, accessories, cutoffs, drains, etc., required to complete such connections shall be included.
- B. The connection to water closets shall be made watertight with gasket and wax ring. Floor flanges shall be caulked into position. Plastic caps shall be provided on the tie down bolts, and shall be secured in place by screwing down on threaded brass washers.
- C. Where water pipes connect to exposed chrome plated trim, use proper chrome plated escutcheons.

3.2 SERVICE ACCESS

- A. All valves and accessories shall be insulated so that they can be properly serviced. In no case shall the Plumbing Contractor install equipment or other components in situations that do not meet code requirements or manufacturer's requirements. Provide access doors as required to access valves, etc.
- 3.3 ROUTING OF PIPING
- A. Coordinate routing of piping with others, line up work true to or at right angle to adjacent surfaces and in a workmanlike manner. Support all interior piping from building structure by means of hanger or inserts to maintain pitch of lines, to prevent vibration, and to secure piping place.
- B. Space pipe hangers 8'-0" on center for one inch and smaller pipe, 4'-0" on center for 1-1/4 inch and larger pipe. Provide expansion loops as required.
- C. Pipe hangers for insulated lines shall have suitable saddles to protect insulation.
- A. All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R-6.5 min.) in unconditioned areas. See NCSBC-Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insulation per Sect. 504.5 of the NCSBC 2012 Energy Conservation Code.
- B. Provide pre-fabricated insulation kits for all sink and lavatory exposed drain and supply piping.
- 3.5 INSPECTIONS AND TESTS
- A. Before being concealed, all water, soil and vent piping shall be tested to determine if they are water— and air—tight.
- B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.
- 3.6 STERILIZATION OF PIPING
- Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution, introduced into the system in an approved manner. The sterilizing solution shall remain in the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.

3.7 SERVICE PRESSURE

A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSBC-Plumbing Sect. 604.8.

- A. Contractor to provide for complete plumbing system drain down.
- 3.9 CLEAN UP
- A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.

3.10 GUARANTEES

- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
- B. Any defects in the system which become evident during the augrantee period shall be corrected without cost to the Owner This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.

SYMBOL LEGEND - PLUMBING **SYMBOL DESCRIPTION** WASTE PIPING (W) VENT PIPING (V) ______ COLD WATER PIPING (CW) HOT WATER PIPING (HW) HOT WATER RETURN PIPING (HWR) HIGH TEMPERATURE HW PIPING (HTHW) 140 DEG. F — нтнw —— -- — MEDIUM TEMPERATURE HW PIPING (MTHW) 120 DEG. F LOW TEMPERATURE HW PIPING (LTHW) 110 DEG. F _____LTHW _____ —O COFF CLEANOUT FINISH FLOOR WCO/HCO WALL/HORIZONTAL CLEANOUT CLEANOUT FINISH GRADE **─O** COFG DIELECTRIC UNION SHUT-OFF VALVE CHECK VALVE BALANCING VALVE CIRCULATION PUMP (CP) WATER METER (MTR) VENT THRU ROOF (VTR) POINT OF NEW CONNECTION TO EXISTING FREEZE PROOF, HOSE BIBB (FPHB/HB)

LOAD SUMMARY- PLUMBING

THERMOMETER/TEMPERATURE GAUGE (T)

A 2" CW SERVICE AND METER ARE EXISTING.

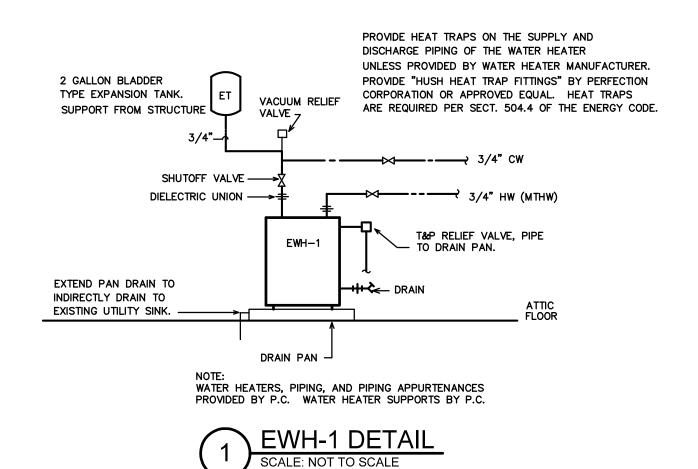
GENERAL NOTES - PLUMBING

1. PREPLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING. 2. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES. 3. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR

LABOR EXPENSES. 4. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING PLUMBING FIXTURES, MATERIALS, AND DEVICES. 5. LOCATE FIXTURES AND EQUIPMENT GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE-REQUIRED AND MANUFACTURER -REQUESTED SERVICE CLEARANCES.

6. COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES. OFFSET VENT PIPING AROUND BEAMS AND JOISTS AS NECESSARY. 7. ALL HANDICAP FIXTURES AND INSTALLATION OF HANDICAP FIXTURES SHALL CONFORM TO ADA REQUIREMENTS 8. AT EXTERIOR WALL, INSTALL WATER PIPING ON HEATED SIDE OF WALL INSULATION. 9. PROVIDE WATER HAMMER ARRESTORS AT THE END OF EACH COLD AND HOT WATER BRANCH RISER. SIZE ARRESTOR APPROPRIATELY. 10. PROVIDE CONCRETE RING FOR ALL EXTERIOR CLEAN-OUTS.

11. REVIEW SITE PLAN FOR UTILITIES AND ORIENTATION PRIOR TO START 12. G.C. TO PROVIDE ANY ROOF PENETRATIONS. 13. PROVIDE MTHW AT 120 DEGREES (F) FROM EWH-1. PROVIDE HTHW AT 140 DEGREES (F) AND LTHW AT 110 DEGREES (F) FROM EWH-2.



WATER CLOSET (FLOOR MOUNT BACK SPUD) AMERICAN STANDARD "MADERA FLOWISE" #3429.001, ELONGATED BOWL, 1.28 GPF, ZURN Z5667-BWL FIXTURE, KOHLER HIGHCREST #K-4301 FIXTURE. VITREOUS CHINA, AND 1 1/2" BACK SPUD. WC2 TO BE ADA COMPLIANT. PROVIDE ZURN #ZEMS6152AV-HET, 1.28 GPF VALVE. HYDROTEK H8000C-CB-128 VALVE. OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE, EQUAL TO SLOAN OPTIMA 140-1.28-ES-S (AC POWERED) FLUSH VALVE. WATER CLOSET (WALL MOUNT BACK SPUD) AMERICAN STANDARD "AFWALL FLOWISE" #3353.128, ELONGATED BOWL, 1.28 GPF, KOHLER KINGSTON #K-4329 FIXTURE. ZURN #Z5617 FIXTURE. ZURN #ZEMS6140AV WITREOUS CHINA, AND 1 1/2" BACK SPUD. WC3 TO BE ADA COMPLIANT WHERE REQUIRED. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE, EQUAL TO FLUSH VALVE. HYDROTEK H-8000C-CB FLUSH VALVE. SLOAN OPTIMA MODEL 152-1.28-ES-S (AC POWERED) FLUSH VALVE. CARRIER SHALL BE JAY R. SMITH #210 SERIES CARRIER. JOSAM STD. 4" NO HUB, 2" VENT CARRIER. ZURN 4" NO HUB #Z1203-N-X W/HEAVY-DUTY REAR ANCHOR FOR WC3. COORDINATE MODEL WITH LEFT/RIGHT FLOW DIRECTION AS REQUIRED. WATER CLOSET (FLOOR MOUNT REAR OUTLET W/BACK SPUD) AMERICAN STANDARD "PRIOLO FLOWISE" #3697.001, ELONGATED BOWL, 1.28 GPF FIXTURE-NO 3RD CHOICE AVAILABLE. ZURN Z5647-BWL FIXTURE, VITREOUS CHINA, AND 1 1/2" BACK SPUD. WC TO BE ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE, EQUAL TO ZURN #ZEMS6152AV-HET, 1.28 GPF VALVE. HYDROTEK H-8CB-128, 1.28 GPF VALVE. SLOAN OPTIMA 140-1.28-ES-S (AĆ POWERED) FLUSH VALVE. AMERICAN STANDARD "ALLBROOK" #6550.001, 1.0 GPF, VITREOUS CHINA, 3/4" BACK SPUD, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE TOTO #UT104EV WITH TOTO #TEU2LN11 ZURN #5760 WITH ZURN ZEMS6195AV-OB FLUSH VALVE. SLOAN #195-1.0-ES-S-TMO (AC POWERED). ADA COMPLIANT. LAVATORY (ACCESSIBLE, WALL HUNG) AMERICAN STANDARD "LUCERNE" # 0356.137 WHITE WITH CONCEALED ARM CARRIER AND DRAIN KOHLER GREENWICH #K-2032 WITH ELJER MURRAY II #051-0244 WITH ASSEMBLY (7723.018). ADA COMPĽIANT. FURNISH WITH SLOAN OPTIMA EAF—275 SOLAR POWERED HYDROTEK 7000SLE SOLAR SENSOR FAUCET. TOTO TEL3GS10 SOLAR SENSOR FAUCET. FAUCET. SINK MODEL FOR SINGLE CENTER HOLE. 2- STATION LAVATORY (ACCESSIBLE) BRADLEY TERREON ELX-2A WITH JUST JSG-7000 WILLOUGHBY MODEL WAW-232-DMF WITH SLOAN SLOANSTONE TWO STATION LAVATORY #ELS-72275, 2 DRAINS W/GRID STRAINERS, ADA SOLAR SENSOR FAUCETS. TOTO TEL3GS10 SOLAR SENSOR FAUCETS. COMPLIANT. COLOR MWN WALNUT (VERIFY). FÜRNISH WITH SLOAN EAF-275 SOLAR POWERED FAUCETS - STATION LAVATORY (ACCESSIBLE) BRADLEY TERREON ELX-3 WITH JUST JSG-7000 WILLOUGHBY MODEL WAW-2333-DMF WITH SLOAN SLOANSTONE THREE STATION LAVATORY #ELS-73275, 2 DRAINS W/GRID STRAINERS, ADA SOLAR SENSOR FAUCETS. TOTO TEL3GS10 SOLAR SENSOR FAUCETS. COMPLIANT. COLOR MWN WALNUT (VERIFY). FURNISH WITH SLOAN EAF-275 SOLAR POWERED FAUCETS. THERMOSTATIC MIXING VALVE WATTS MMV SERIES. TACO 5000 SERIES. LEONARD TM-20-E MIXING VALVE WITH CHECKSTOPS. 3/4" INLETS. INSTALL IN ACCESSIBLE LOCATION. SET OUTFLOW TO SPECIFIED TEMPERATURE (110 DEG F.). ELECTRIC WATER HEATER #2 (PROVIDES MTHW) RHEEM #81VP10S.
AMTROL ST-5-C EXPANSION TANK BRADFORD WHITE #M-1-10U6SS. A.O. SMITH MODEL EJC-10, 10 GALLON, 1,650 WATT, 3/4" INLET AND OUTLET, STATE ETC-2X EXPANSION TANK. 120V. AO SMITH MODEL #PMC-2 EXPANSION TANK. ELECTRIC WATER HEATER #1 (PROVIDES HTHW/LTHW) STATE #ES6-50-DORT. BRADFORD WHITE #LD-50R3-3. AO SMITH WATER HEATER MODEL #DEN-52, 50 GALLONS, 4500 WATT, 208 VOLT, 1 PHASE, NON-STATE ETC-2X EXPANSION TANK. AMTROL ST-5-C EXPANSION TANK. SIMULTANEOUS DUAL ELEMENTS, 3/4" INLET/OUTLET, AO SMITH MODEL #PMC-2 EXPANSION TANK. CIRCULATING PUMP BELL & GOSSET, SERIES NBF-22 IN-LINE CIRCULATOR PUMP, 1/12 HP, 115 VAC, FLA=0.8 TACO MODEL #110. ARMSTRONG MODEL #S-25. 1 Ph., 3/4" CONN., WITH A MAXIMUM OF 22 GPM AND 15' TDH. PUMP TO BE ALL BRONZE CONSTRUCTION, COORDINATE WITH ELEC. CONTRACTOR FOR POWER FEED. PROVIDE DISCONNECT SWITCH, AQUASTAT CONTROL, THERMOMETER/TEMPERATURE GAUGES. ZURN ZN-415 WITH DEEP SEAL P-TRAP, 5" X 5" TYPE "B" HEEL PROOF STRAINER, 3" CONNECTION, JOSAM #30000-A. JAY R. SMITH #2005-A. VANDAL-PROOF TOP. FLOOR DRAIN W/EXTENSION FLANGE WATTS FD-100-ER. JOSAM #30000-E1 ZURN MODEL Z415-I, 5" DRAIN, 4" CONNECTION. PROVIDE RAISED FLANGE W/NICKEL BRONZE GRATE, CAST IRON BODY. PROVIDE TRAP PRIMER CONNECTION. TRAP PRIMER VALVE JOSAM #88300. WATTS #A200. PPP INC. MODEL# PR-500, 1/2" INLET, 1/2" OUTLET WATTS #HY-330. JAY R. SMITH #5509QT. ZURN Z-1330-C, 3/4" WALL HYDRANT WITH VANDAL RESISTANT VACUUM BREAKER. ENCASED WITH KEY LOCK 2" REDUCED PRESSURE BACKFLOW PREVENTER FEBCO #860-2". WILKINS #975-2". ZURN MODEL 375-2" REDUCED PRESSURE BACKFLOW PREVENTER, CAST BRONZE CONSTRUCTION, LEAD FREE. WITH WYE STRAINER, VERIFY MOUNTING CLEARANCES/LOCATION PRIOR TO ORDERING. THERMOSTATIC MIXING VALVE TACO 5000 SERIES. LEONARD TM SERIES WATTS MMV-M1 MIXING VALVE WITH CHECKSTOPS. 1" INLETS. INSTALL IN ACCESSIBLE LOCATION. SET OUTFLOW TO SPECIFIED TEMPERATURE (LTHW/110 DEG F.). DRINKING FOUNTAIN (HI-LO, NON-REFRIGERATED, ACCESSORY APRON FOR HIGH UNIT) HALSEY-TAYLOR MODEL #HDFFBLEBP. OASIS MODEL #MSSLPM.

PLUMBING FIXTURE SCHEDULE

ALTERNATE MANUFACTURER/MODEL

ZURN #Z5665 FIXTURE. ZURN #ZEMS6000IS

FLUSH VALVE.

ALTERNATE MANUFACTURER/MODEL

KOHLER HIGHCREST #K-4302 FIXTURE.

HYDROTEK H8-128 VALVE.

STNLS. STL. ACCESSORY APRON.

*OR APPROVED EQUAL

MARK

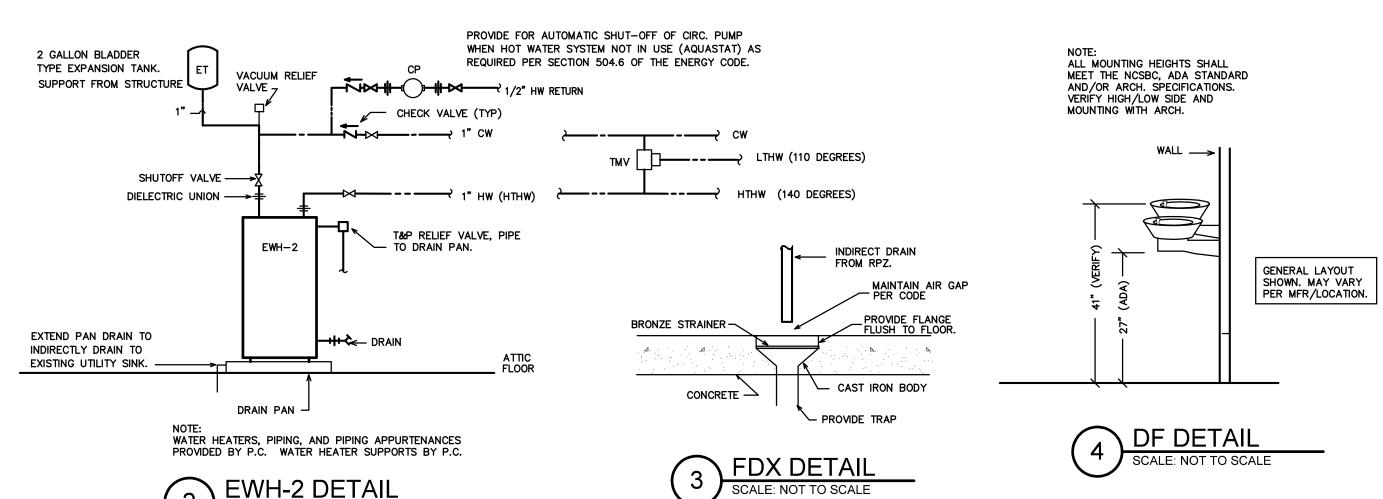
DESCRIPTION

AMERICAN STANDARD "MADERA FLOWISE" #3461.001, ELONGATED BOWL, 1.28 GPF,

VITREOUS CHINA, AND 1 1/2" TOP SPUD, ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE EQUAL TO SLOAN

WATER CLOSET (FLOOR MOUNT TOP SPUD)

OPTIMA 111-1.28-ES-S (AC POWERED) FLUSH VALVE.



ACCESSORY APRON HDFCANE.

ELKAY EHWM217C WITH ACCESSORY APRON FOR LKAPR2. VERIFY HI/LO SIDES MODEL WITH ARCH.

COORDINATE W/ARCH. FOR MOUNTING HEIGHTS (1-ADA HEIGHT/LOW, 1-HIGH).

WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS 3305-109 Durham Drive Raleigh North Carolina 23

Raleigh, North Carolina 27603 919.771.1916 fax: 919.779.0826 email: benburke@nc.rr.com Corp. License # C-2652



Ben Burke 11/18/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. 1504b

DRAWING TITLE **PLUMBING SPECIFICATIONS**

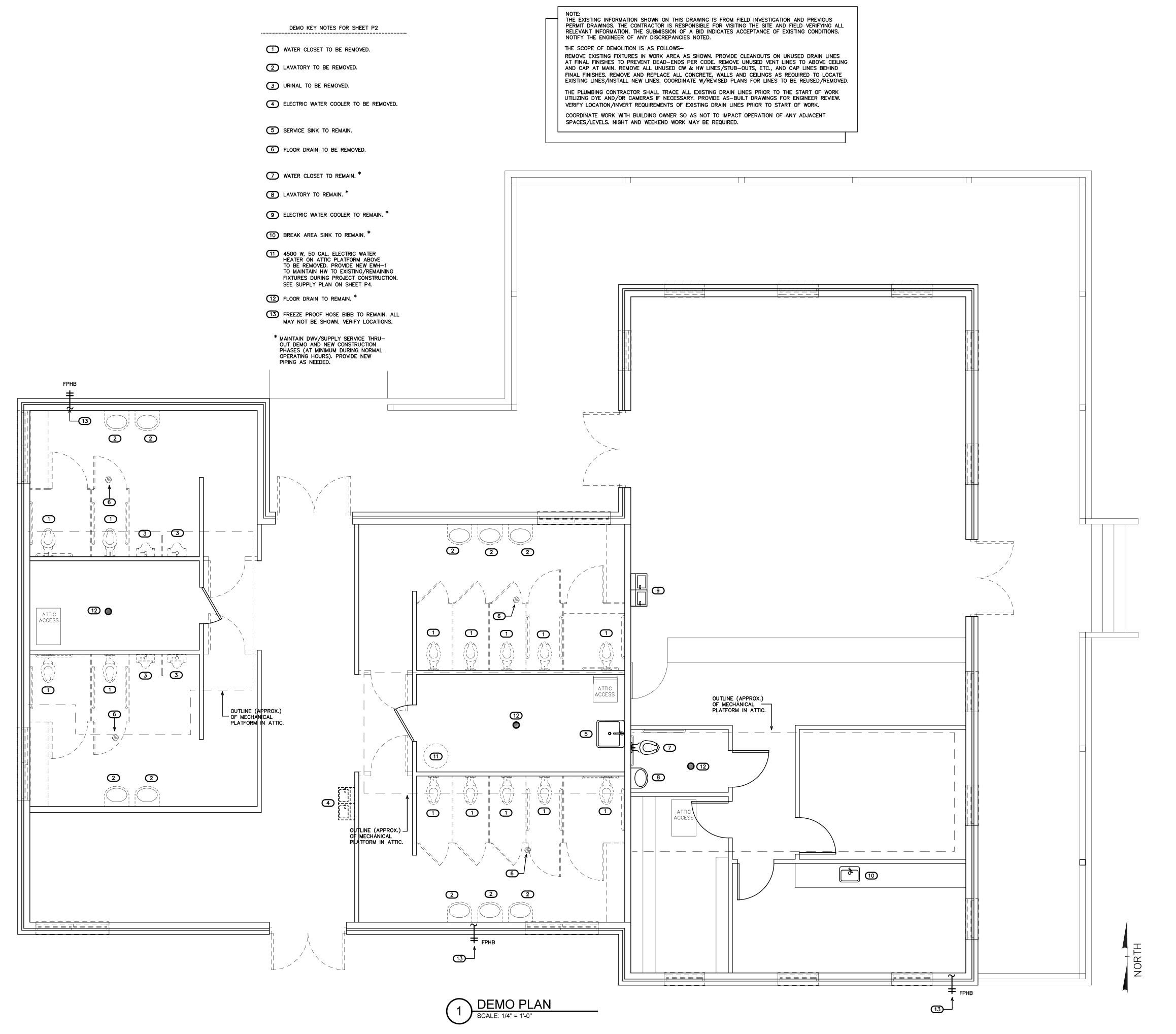


PLOT DATE

11/3/16

This original sheet is 22" x 34"; other dimensions

Weeks Turner Architecture and may not be duplicated in whole or in part without writter



WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, 78 consultring engineers

3305-109 Durham Drive Raleigh, North Carolina 27603 919.771.1916 fax: 919.779.0826 email: benburke@nc.rr.com

Corp. License # C-2652



Ben Burke

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO.

DRAWING TITLE
DEMO
PLAN

PLOT DATE

11/3/16

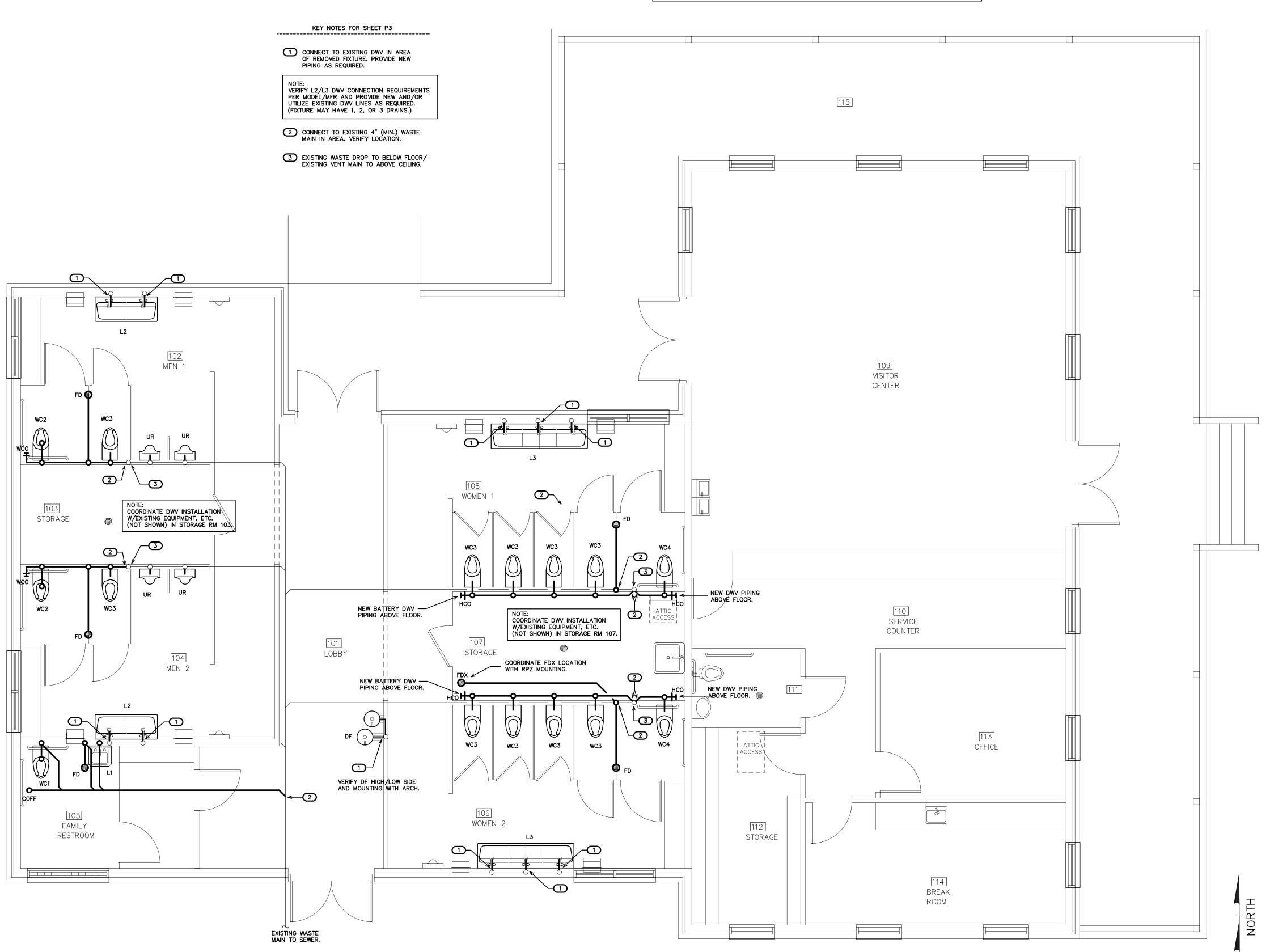
This original sheet is 22" x 34"; other dimensions indicate it has been altered.

NO IE:
THE EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM FIELD INVESTIGATION AND PREVIOUS
PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL
RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS.
NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILINGS AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES. ALL EXISTING LINES NOT SHOWN.

THE PLUMBING CONTRACTOR SHALL TRACE ALL EXISTING DRAIN LINES PRIOR TO THE START OF WORK UTILIZING DYE AND/OR CAMERAS IF NECESSARY. PROVIDE AS—BUILT DRAWINGS FOR ENGINEER REVIEW. VERIFY LOCATION/INVERT REQUIREMENTS OF EXISTING DRAIN LINES PRIOR TO START OF WORK.

COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.



1 DWV PLAN
SCALE: 1/4" = 1'-0"

WEEKS
TURNER
ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS

3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com

Corp. License # C-2652



Docusigned by:
BUN BUNKL
C93761FB80F34D5.

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE

CASWELL COUNTY

REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. **1504b**

DRAWING TITLE DWV PLAN

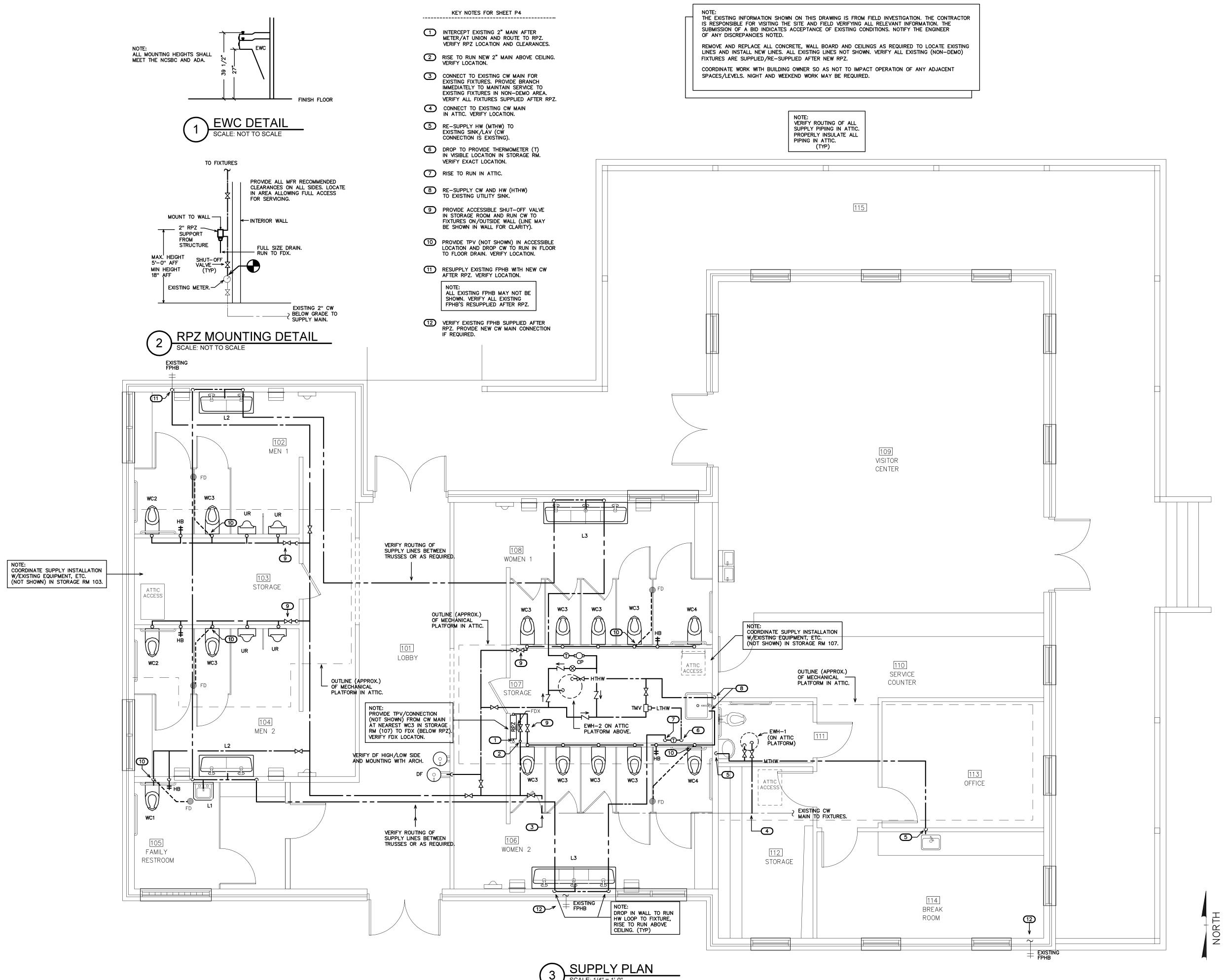


PLOT DATE

DATE 11/3/16

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written



WEEKS
TURNER
ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS

3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com

Corp. License # C-2652



Docusigned by:

BUN BUNKL

C93761FB80F34D5...

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE

CASWELL COUNTY

REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. **1504b**

DRAWING TITLE SUPPLY PLAN

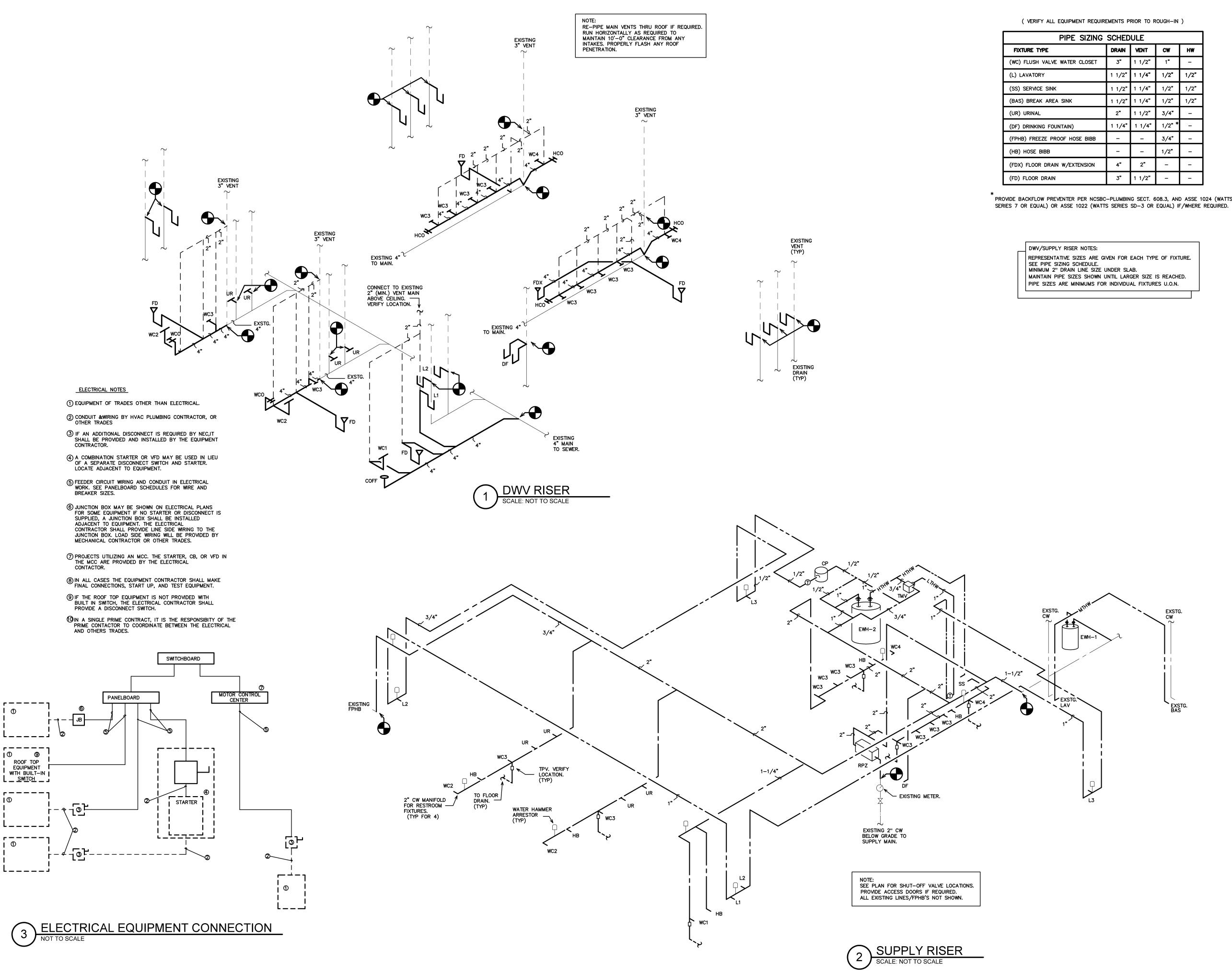


PLOT DATE

ATE 11/3/16

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016



PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3, AND ASSE 1024 (WATTS

WEEKS **TURNER ARCHITECTURE**

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, 78 consultring engineers

3305-109 Durham Drive 3305-109 Durham Drive Raleigh, North Carolina 27603 919.771.1916 fax: 919.779.0826 email: benburke@nc.rr.com

Corp. License # C-2652



Ben Burke C93761FB80F34D5.

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA

PELHAM, NORTH CAROLINA

PROJECT NO. 1504b

US 29

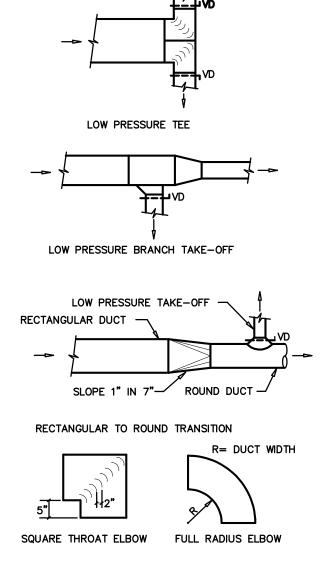
DRAWING TITLE **RISERS**

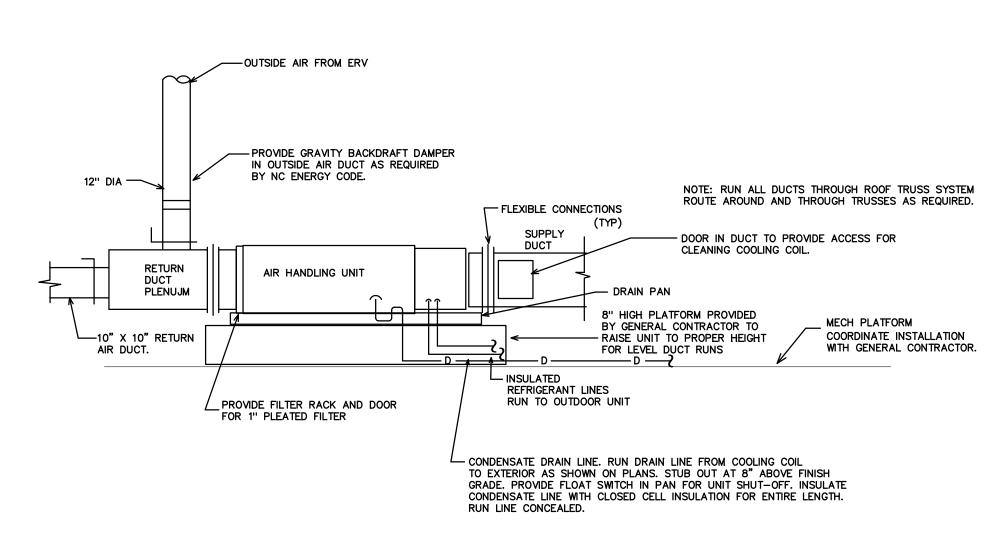


PLOT DATE

11/03/16

This original sheet is 22" x 34"; other dimensions







OUTDOOR HEAT PUMP UNIT

HP #2

LOW PRESSURE DUCT ELBOWS



GENERAL NOTES - MECHANICAL

DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- 3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
- 4. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR
- THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.
- THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS. THERE ARE NO RATED WALLS PENETRATED IN THIS HVAC UPFIT.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING. PROVIDE SPIN IN STARTING COLLARS WITH DAMPERS AT ALL SUPPLY TAKEOFFS.
- 10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR. COORDINATE EXACT SIZE WITH SPACE AVAILABLE DUCT INSULATION SHALL BE 2" FIBERGLASS EXTERIOR DUCT INSULATION WITH FOIL FACING.
- 11. THERMOSTAT, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE MC. MOUNT THERMOSTAT 48" ABOVE THE FINISHED FLOOR. COORDINATE LOCATION WITH OWNER. PROVIDE AUTO CHANGEOVER THERMOSTAT WITH UNIT OFF POSITION AS MINIMUM. PROVIDE AN EMERGENCY SHUT-OFF SWITCH ABOVE THE THERMOSTAT. PROPERLY LABEL
- 12. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- 13. COORDINATE DIFFUSER AND CEILING EXHAUST GRILLE LOCATIONS WITH LIGHTS AND GRID. COORDINATE MOUNTING FRAME WITH CEILING TYPE.
- 14. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- 15. PROPERLY SUPPORT FLEXIBLE DUCT, MINIMUM 75% DEFORMATION. PROVIDE SHEET METAL ELBOWS AT ALL 90 DEGREE BENDS.
- 16. ALL DUCT JOINTS SHALL BE SEALED AIRTIGHT WITH FIBER ENPREGNATED MASTIC OR HARDCAST AND TAPE.
- 17. SUPPORT AHU, EXHAUST FANS, HEAT WHEEL AND ALL DUCTWORK, ETC. FROM STRUCTURE. PIPE STRAPPING WILL NOT BE ALLOWED.

LEGEND -	MECHANICAL
12 X 8	RECTANGULAR GALVANIZED STEEL DUCTWORK
2 12" DIA.	RIGID ROUND GALVANIZED STEEL DUCTWORK
	FLEXIBLE DUCT
	SUPPLY DIFFUSER
	RETURN GRILLE
T	THERMOSTAT WITH LOCKING, VANDAL PROOF COVER
TS	REMOTE DUCT MOUNTED TEMPERATURE SENSOI
	MANUAL BALANCING DAMPER
XXXX <	—— GRILLE TYPE —— MIN. CFM

OUTDOOR AIR CALC	ULA HUNS
OUTDOOR VENTILATION AIR PROVIDED PER TABLE STATE BUILDING CODE: MECHANICAL CODE.	403.3, 2012 NORTH CAROLINA
APPLICATION	CFM/FLUSHING FIXTURE
TOLIET ROOMS	70 CFM EACH
1400 CFM EXHAUST PROVIDED BY (2) ERVS	CFM/SQ.FT.
1400 CFM EXHAUST PROVIDED BY (2) ERVS APPLICATION	CFM/SQ.FT. 0.06 CFM/SQ
17 FLUSHING FIXTURES X 70 CFM = 1190 CFM 1400 CFM EXHAUST PROVIDED BY (2) ERVS APPLICATION CORRIDORS/UTILITIES 1071 SQ. FT. X 0.06 CFM/SQ.FT. = 64 CFM	
APPLICATION CORRIDORS/UTILITIES	

I WEEKS TURNER **ARCHITECTURE**

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, 78 CONSULTING ENGINEERS 3305-109 Durham Drive Raleigh, North Carolina 27603

919.771.1916 fax: 919.779.0826 email: benburke@nc.rr.com email: benburke@nc.rr.com



Ben Burke C93761FB80F34D5

11/5/2016

HVAC E	HVAC EQUIPMENT SCHEDULE											
HVAC SYSTEM #1												
AHU #1 DIRECT EXPANSION FAN COIL UNIT	CARRIER MODEL #FX4CNF036, 4 WAY, MULTIPOISE FAN COIL UNIT. 8 KW HEATER. * NOMINAL CAPACITY = 36,000 BTUH. 1200 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE. 3 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 1/2HP, 4.1A MOTOR FLA, 32A HEAT FLA, 240V, 1 PH, 44.7A MCA, 50A MOCP AHU & HEAT.											
HP #1 OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HBC536A0030, 3 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 16.7A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 22.1A MCA, 35A MOCP.											
HVAC SYSTEM #2												
AHU #2 DIRECT EXPANSION FAN COIL UNIT	CARRIER MODEL #FX4CNF036, 4 WAY, MULTIPOISE FAN COIL UNIT. 8 KW HEATER. * NOMINAL CAPACITY = 36,000 BTUH. 1200 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE. 3 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 1/2HP, 4.1A MOTOR FLA, 32A HEAT FLA, 240V, 1 PH, 44.7A MCA, 50A MOCP AHU & HEAT.											
HP #2												

CARRIER MODEL #25HBC536A0030, 3 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE

PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 16.7A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 22.1A MCA, 35A MOCP.

* OR APPROVED FOLIAL

NOTE:

COORDINATE BORDER TYPE WITH THE CEILING/WALL TYPE. SEE ARCH SHEETS PROVIDE DUCT TRANSITIONS AS REQUIRED.

7	OR APPROVED EQUAL
E: 1	1. AHU HEATER KW RATINGS ARE AT 208 VOLTS.
2	2. PROVIDE OUTDOOR TSTAT TO PREVENT ELECTRIC HEAT OPERATION WHEN HEAT PUMP CAN MEET THE HEATING LOAD

ENE	RGY RECOV	/ERY	UNIT S	SCHEDU	JLE												
											THERMAL PERFOR	RMANCE					
				FAN	s / Moto	RS			DESIGN CONDITIONS ENERGY RECOVERY (THERMAL) CAP								
EQUIP. NUMBER	MODEL NO.	FLOW	STATIC PRESSURE (EXTERNAL)	FAN MOTORS FAN MOTORS	FLA (FOR UNIT SINGLE POINT)	VOLTS/ PHASE/ HZ	MCA	FUSE/CB MAX		OUTSIDE AIR TEMP(F) & HUMIDITY ROOM AIR TEMP (F) & HUMIDITY (DB) / (WB OR RH) (DB) / (WB OR RH)			LEAVING AIR TEM (DB) /	• •	COOLING CAPACITY (MBH / TON)	HEATING CAPACITY (MBH)	NOTES:
									SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	TOTAL	TOTAL	
ERV-1	MICROMETL FWVH11IH69000HEF	700 CFM	0.50IN H ₂ 0	(2) FOR FANS	14.76 A	208-230V 1 PH 60 HZ	18.45	25	93F / 74F	16F / 8	75F / 50%	72F / 50%	80.3F / 70.8F	57.5F / 45	9.6 / 0.8	21.5	ALL
ERV-2	MICROMETL FWVH11IH69000HEF	700 CFM	0.50IN H ₂ 0	(2) FOR FANS	14.76 A	208-230V 1 PH 60 HZ	18.45	25	93F / 74F								ALL

NOTES:

- 1. FLOW & LOADS BASED ON ARI-1060 PERFORMANCE & CERTIFIED CORE.
- NOT USED.
- 3. VENTILATION TYPE: STATIC PLATE, HEAT & HUMIDITY TRANSFER. 4. INCLUDE INTEGRAL DISPOSABLE FILTERS (OUTSIDE AND ROOM AIR) WITH MERV8 OR BETTER RATING.
- 5. INCLUDE SINGLE POINT ELECTRICAL POWER CONNECTION.
- 6. HOUSING SHALL BE GALVANIZED, .20 GAUGE (OR THICKER) STEEL WITH LAPPED CORNERS. 7. OR EQUALS BY SEMCO, OR THYBAR.
- 8. SERVICE ACCESS DOORS SHALL BE GASKETED & PROVIDE ACCESS FOR MAINTENANCE OF ALL COMPONENTS. 9. INCLUDE INSULATION ON ALL CASE WALLS & DOORS. 10. INCLUDE THERMALLY PROTECTED MOTORS WITH STARTERS.
- 11. UL LISTED 1995 12. PROVIDE WITH FUSED DISCONNECT SWITCH.

AIR DISTRIBUTION SCHEDULE MATERIAL SERVICE NOTES MODEL NO. MANUFACTURER SIZE SIZE CARNES COLOR BY ARCHITECT GYP CEILING MOUNT SASM-40 ALUMINUM SUPPLY COLOR BY ARCHITECT SIDE WALL MOUNT 10" X 6" 8" X 4" ALUMINUM RADBH SUPPLY CARNES COLOR BY ARCHITECT SIDE WALL MOUNT 14" X 14" | 16" X 16" RA CARNES RAJBH ALUMINUM RETURN COLOR BY ARCHITECT GYP CEILING MOUNT EΑ 12" X 12" ALUMINUM CARNES RATAF EXHAUST COLOR BY ARCHITECT SIDE WALL MOUNT EB 10" X 4" 12" X 6" ALUMINUM CARNES RAJBH EXHAUST

* OR APPROVED EQUAL BY TUTTLE & BAILEY, OR METALAIRE

MECHANICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

Energy Cost Budget

Thermal Zone 4A

Exterior Design Conditions

winter dry bulb summer dry bulb

Interior Design Conditions

winter dry bulb

summer dry bulb relative humidity

Building Heating Load 91,600 BTU/hr -43,120 BTU/hr (heat wheel reduction)

Building Cooling Load

62,700 BTU/hr -19,600 BTU/hr (heat wheel reduction) 43,100 BTU/hr

Mechanical Spacing Conditioning System

Unitary — The building is served by (2) two 3 ton split system heat pump units with with (2) two enerygy recovery ventilators.

48,480 BTU/hr

Boiler — Not applicable to this project. Chiller — Not applicable to this project.

Equipment efficiencies

Efficiencies and outputs are listed on equipment schedules — See drawings.

Equipment schedules with motors.

Motors used on this project are included in the efficiency rating of the unit. See drawings for efficiencies.

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the mechanical system and equipment requirements of the 2012 North Carolina State Building Code: Energy Conservation Code.

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA

> US 29 PELHAM, NORTH CAROLINA

DRAWING TITLE **HVAC**

SCHEDULES/DETAILS

PROJECT NO.

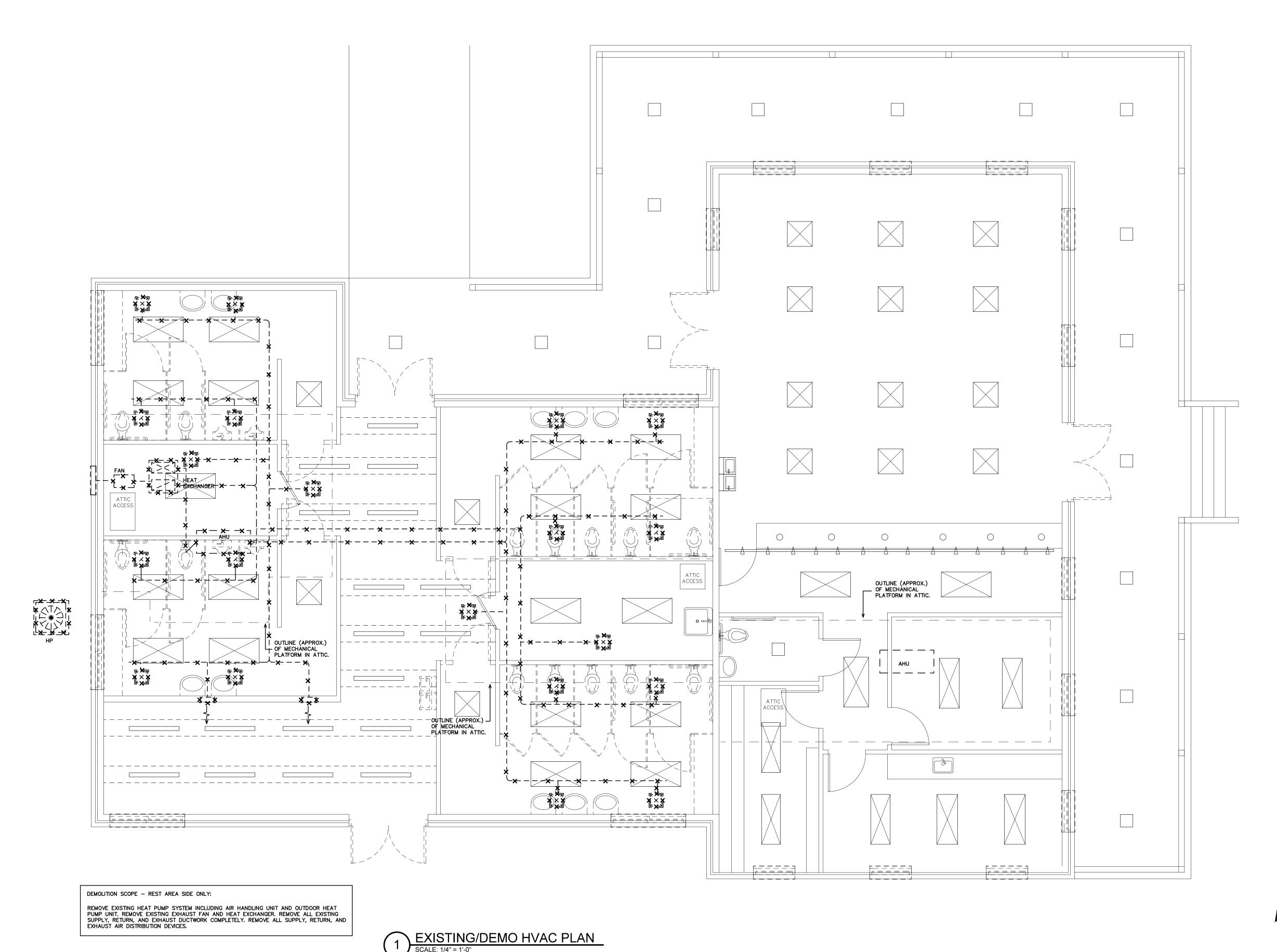
1504b

PLOT DATE

11/03/16

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016



WEEKS TURNER ARCHITECTURE

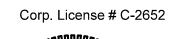
WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS

3305-109 Durham Drive
Raleigh, North Carolina 27603

3305-109 Durham Drive Raleigh, North Carolina 27603 919.771.1916 fax: 919.779.0826 email: benburke@nc.rr.com





DocuSigned by:
BUN BUNKU
C93761FB80F34D5...

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE

CASWELL COUNTY

REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. **1504b**

DRAWING TITLE
EXISTING HVAC
PLAN



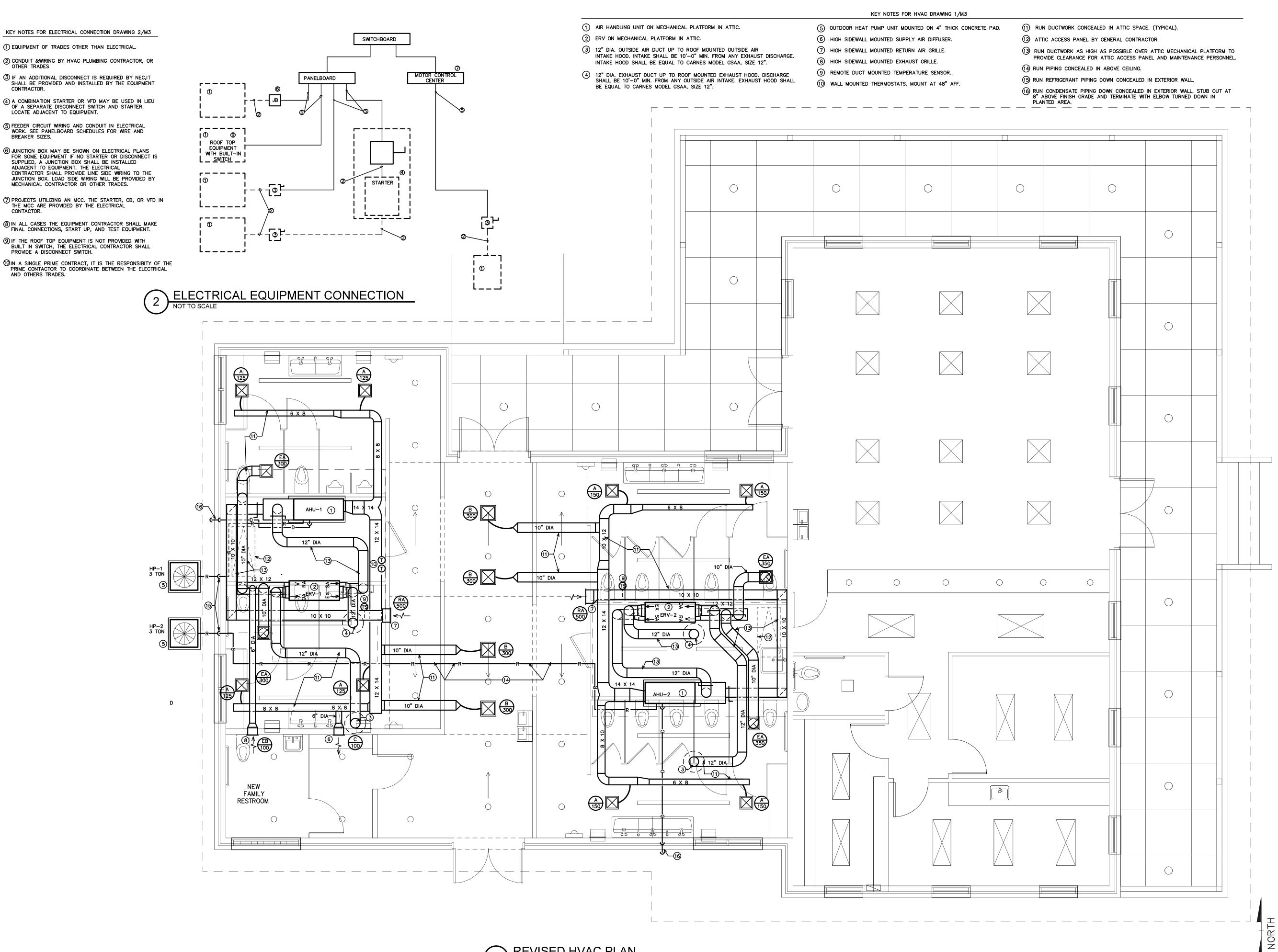
PLOT DATE

11/03/16

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016

NORTH



WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS

3305-109 Durham Drive Raleigh, North Carolina 27603 919.771.1916 fax: 919.779.08 email: benburke@nc.rr.com 919.771.1916 fax: 919.779.0826 Corp. License # C-2652



Ben Burke C93761FB80F34D5..

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA

US 29 PELHAM, NORTH CAROLINA

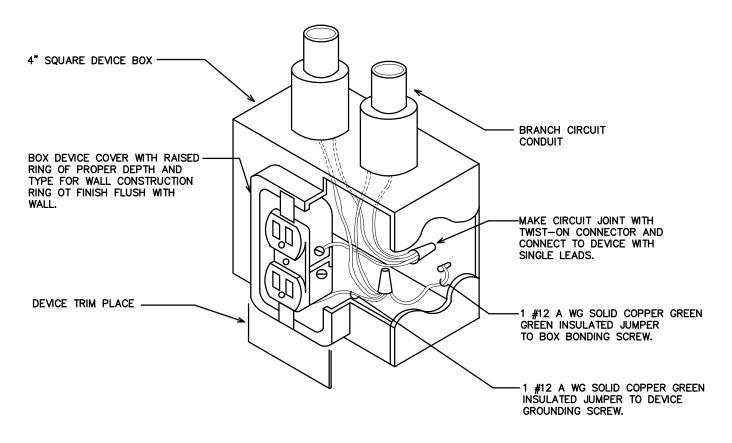
PROJECT NO. 1504b

DRAWING TITLE REVISED HVAC PLAN

PLOT DATE

11/03/16

This original sheet is 22" x 34"; other dimensions indicate it has been altered. All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016



RECEPTACLE GROUNDING DETAIL

ELECTRICAL NOTES

1 EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.

② CONDUIT &WIRING BY HVAC PLUMBING CONTRACTOR, OR OTHER TRADES

3 IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.

(4) A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.

(5) FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.

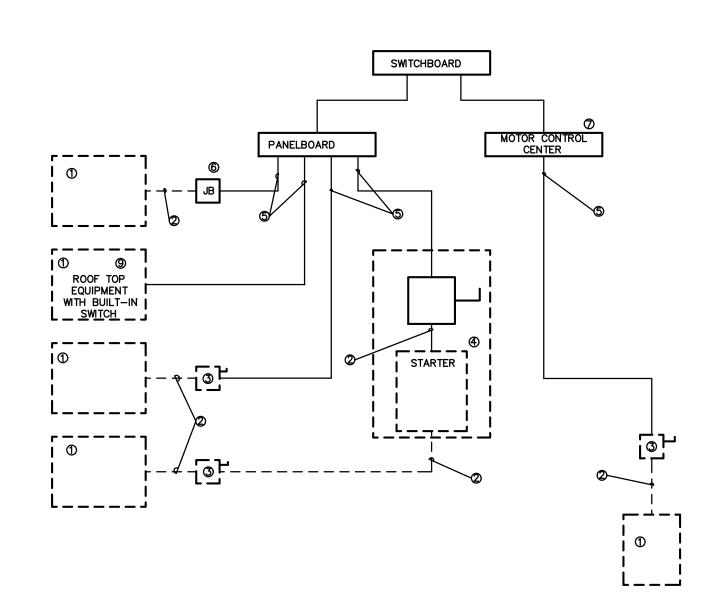
6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.

7 PROJECTS UTILIZING AN MCC. THE STARTER, CB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL

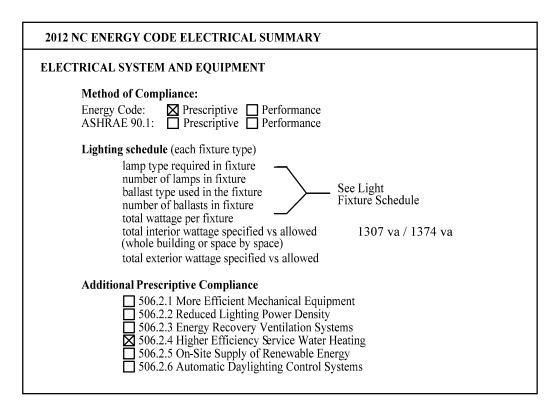
(8) IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.

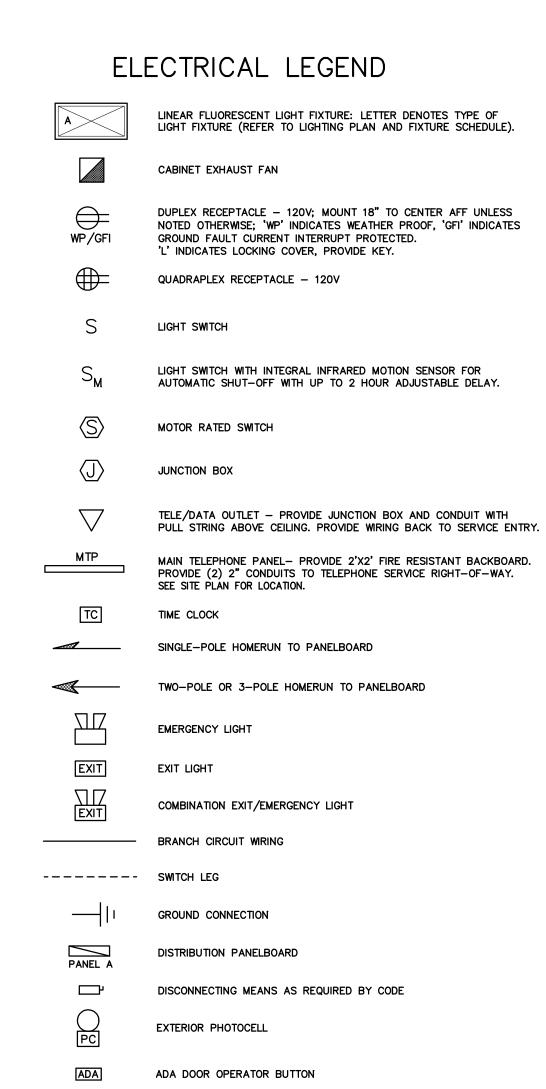
9 IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.

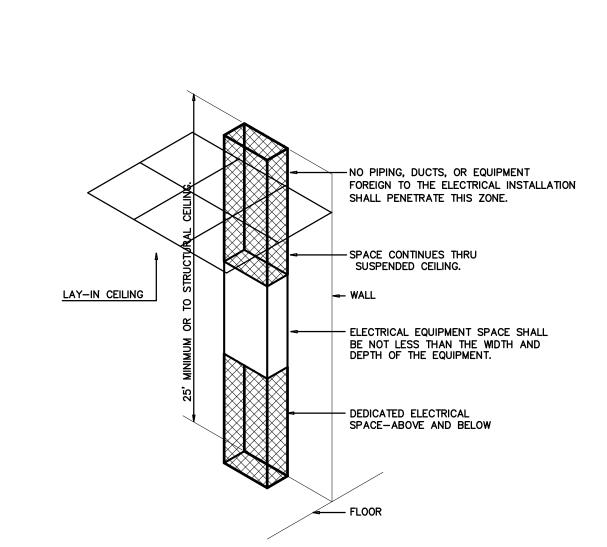
OIN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBITY OF THE PRIME CONTACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND OTHERS TRADES.



2 ELECTRICAL EQUIPMENT CONNECTION







ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.



ELECTRICAL EQUIPMENT WORKING CLEARANCE

WORKING CLEARANCES

CONDITION: 1

VOLTAGE TO

0-150 151-600

GROUND NOMINAL

MIN. CLEAR DISTANCE IN FEET

3-1/2

PER ARTICLE 110.26 OF N.E.C.

- STRUCTURAL CEILING

- SUSPENDED CEILING

- ELECTRICAL EQUIPMENT

EVEN WITH FRONT EDGE

DEDICATED ELECTRICAL

EQUIP. WORKING CLEARANCE

THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26 OF THE N.E.C.

EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE

OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT

ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS. EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING

SPACE AND GROUNDED PARTS ON THE OTHER SIDE

OF THE WORKING SPACE. CONCRETE, BRICK OR TILE

3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE.

WALLS SHALL BE CONSIDERED AS GROUNDED.

WHERE THE CONDITIONS ARE AS FOLLOWS:

OF EQUIPMENT

WIDTH OF EQUIP



WEEKS TURNER **ARCHITECTURE**

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS 3305-109 Durham Drive Raleigh, North Carolina 27603

919.771.1916 fax: 919.779.0826 email: benburke@nc.rr.com



Ben Burke ---- C93761FB80F34D5...

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. 1504b

DRAWING TITLE ELECTRICAL LEGEND/DETAILS

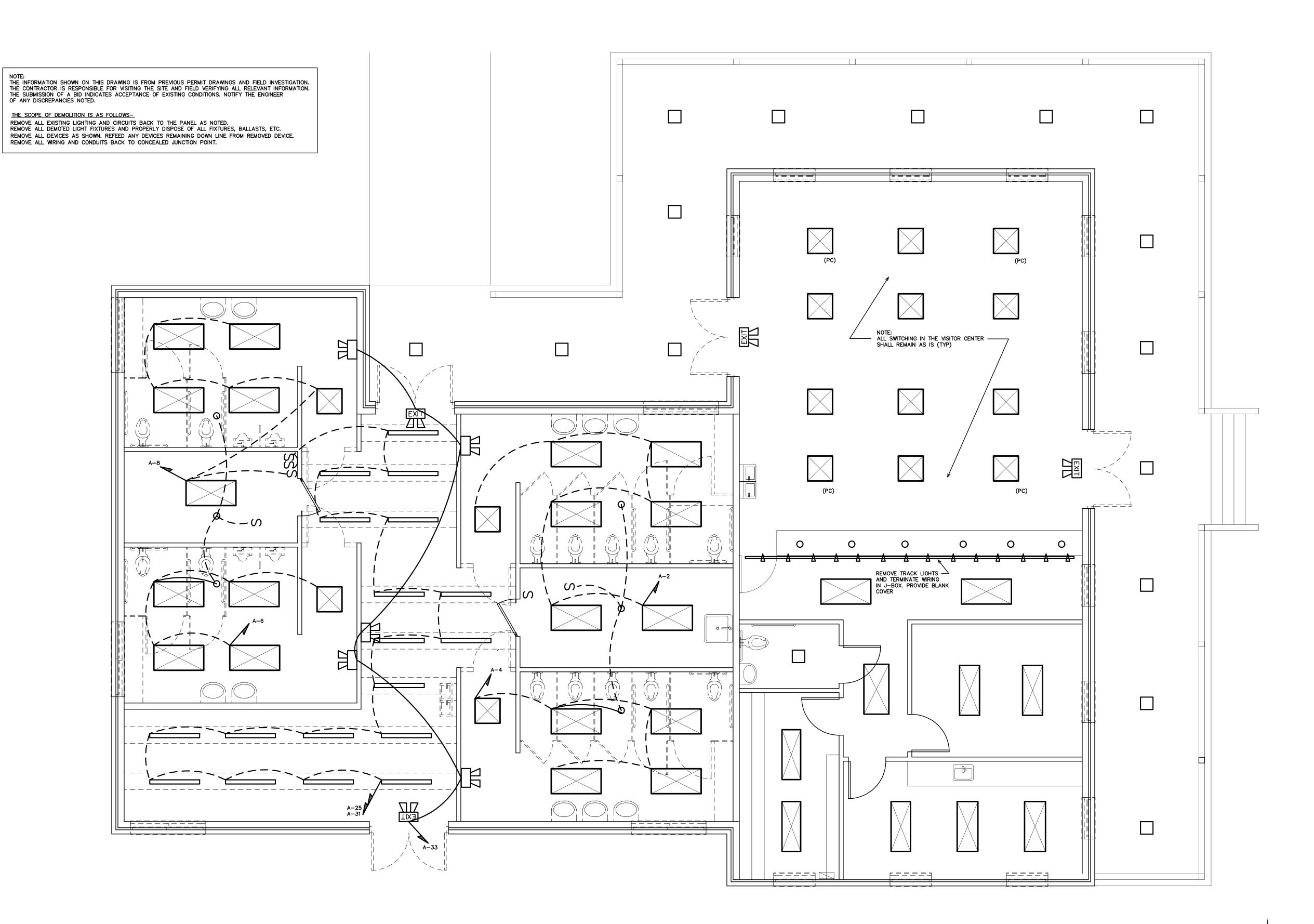


PLOT DATE

9/16/16

This original sheet is 22" x 34"; other dimensions

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016



1 EXISTING LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS

3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com

Corp. License # C-2652



DocuSigned by: Ben Burke C93761FB80F34D5...

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. 1504b

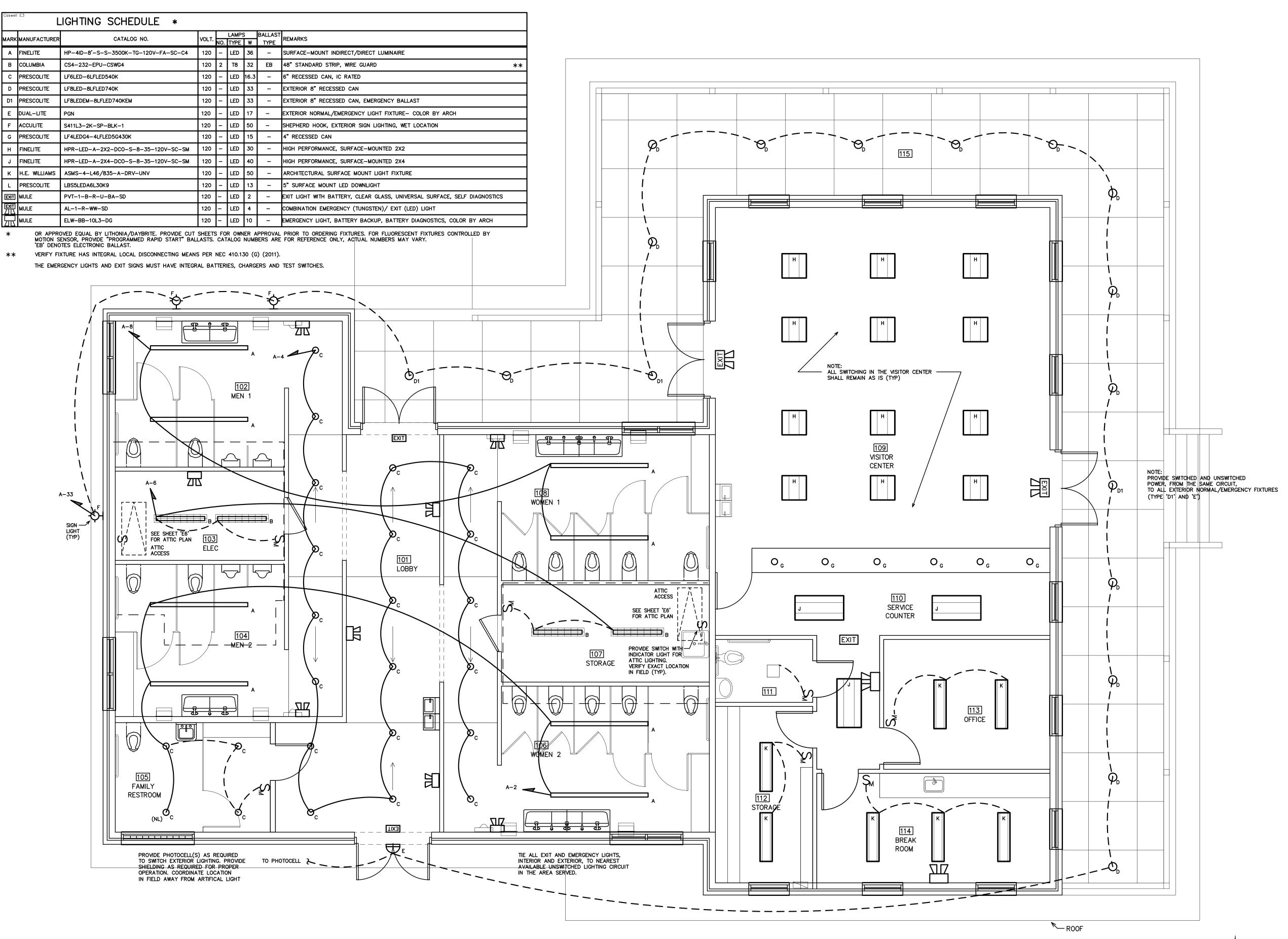
DRAWING TITLE
EXISTING LIGHTING
PLAN



PLOT DATE

9/16/16

This original sheet is 22" x 34"; other dimensions indicate it has been altered.



REVISED LIGHTING PLAN

TURNER ARCHITECTURE

WEEKS

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa consulting engineers

3305-109 Durham Drive

3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com

Corp. License # C-2652



DocuSigned by:

BUN BUNKL

C93761FB80F34D5.

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE

CASWELL COUNTY

REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. **1504b**

DRAWING TITLE
REVISED LIGHTING
PLAN

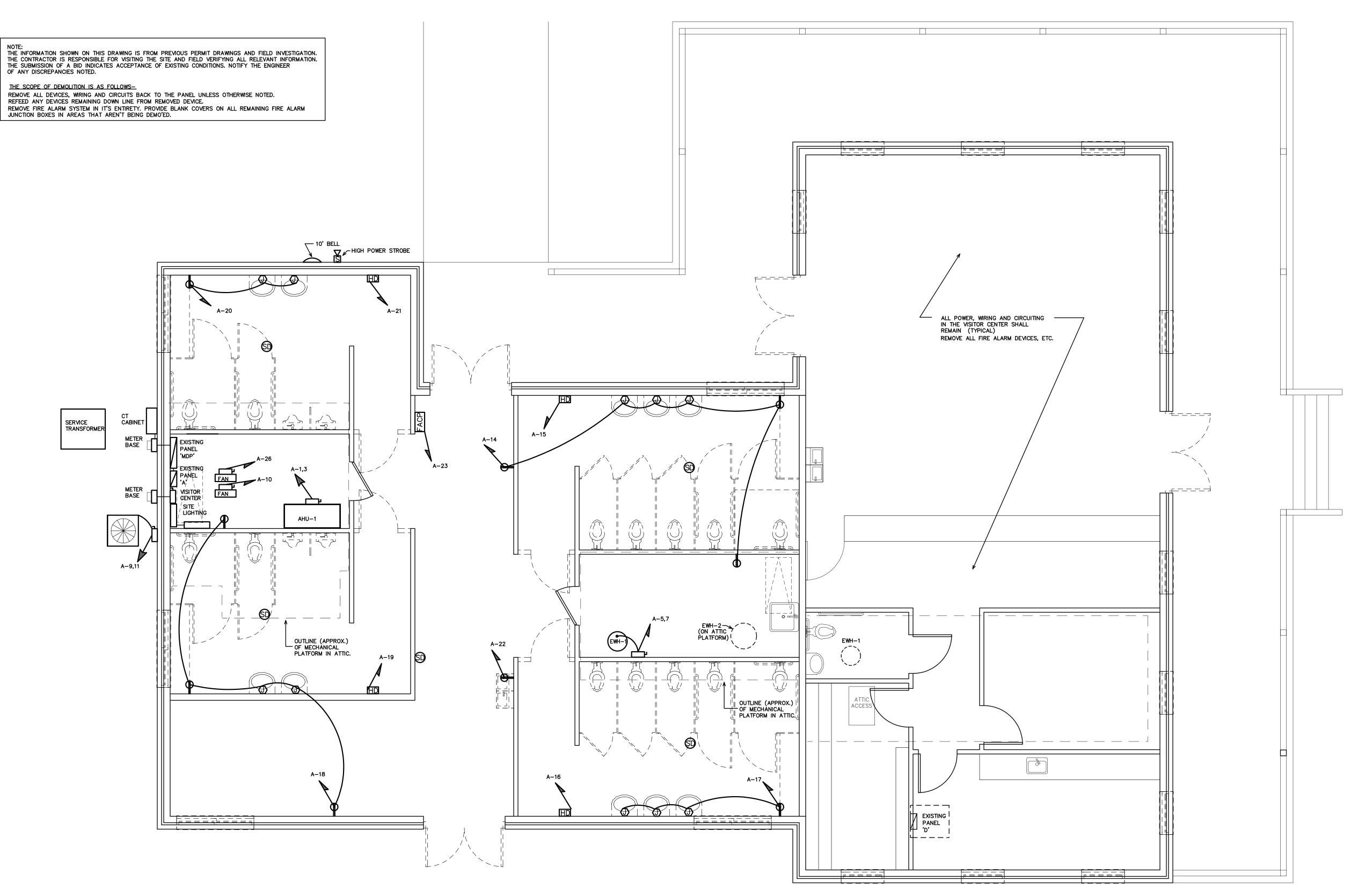
ES

PLOT DATE

9/16/16

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016



DEVICE TO BE REMOVED (TYPICAL)

DEVICE TO REMAIN IN PLACE (TYPICAL)



WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS

3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com



Ben Burke C93761FB80F34D5... 11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. 1504b

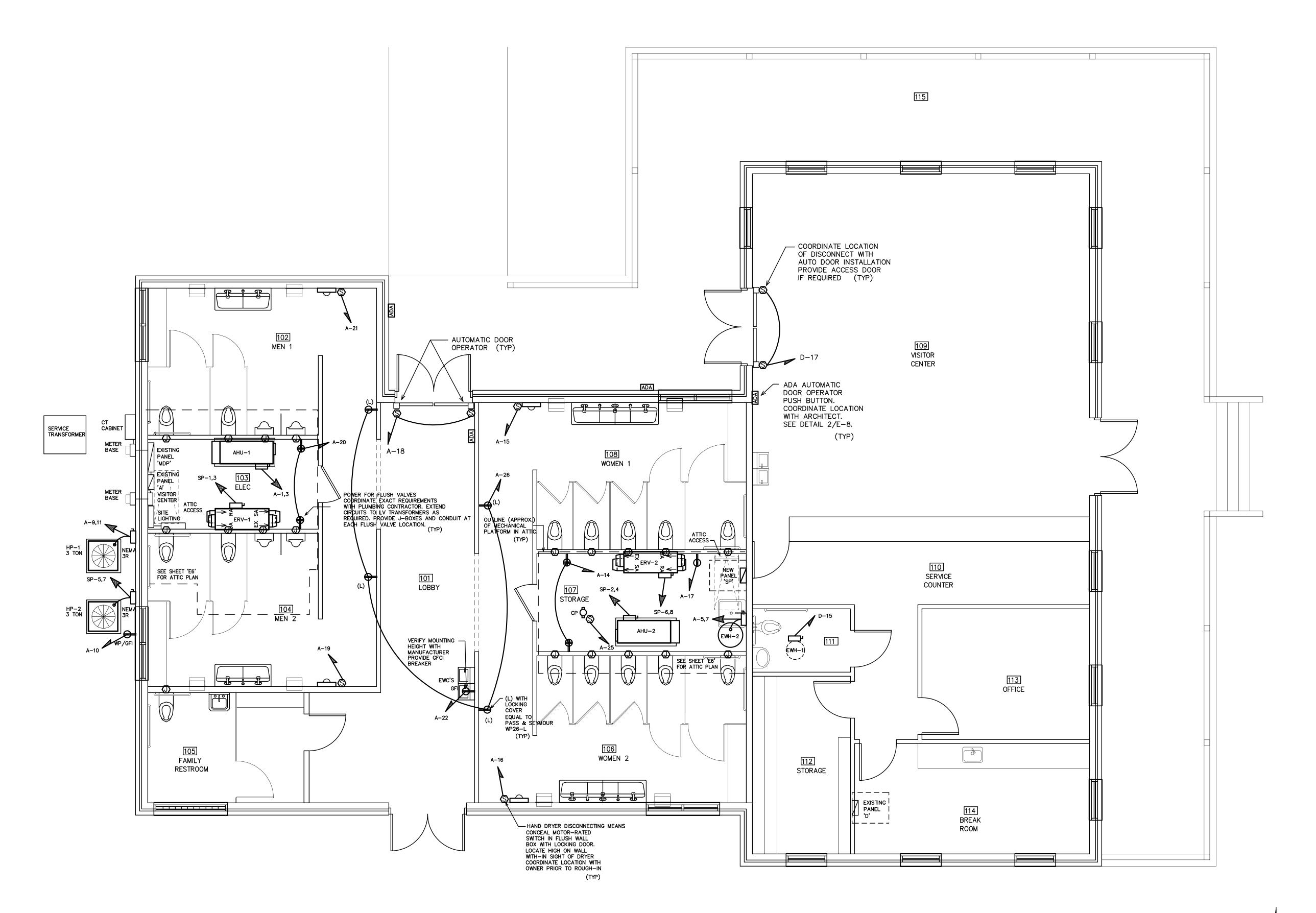
DRAWING TITLE EXISTING POWER PLAN

PLOT DATE

9/16/16

This original sheet is $22" \times 34"$; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016



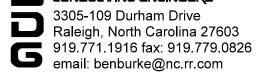
1 REVISED POWER PLAN
SCALE: 1/4" = 1'-0"

WEEKS
TURNER
ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS



Corp. License # C-2652



Docusigned by:
BUN BUNKL
C93761FB80F34D5.

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE

CASWELL COUNTY

REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. **1504b**

DRAWING TITLE
REVISED POWER
PLAN

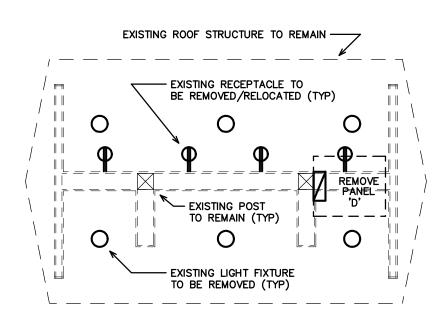
I;5

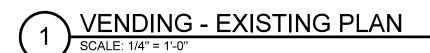
PLOT DATE

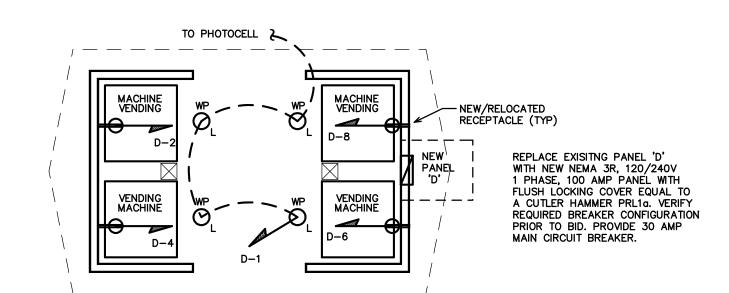
9/16/16

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

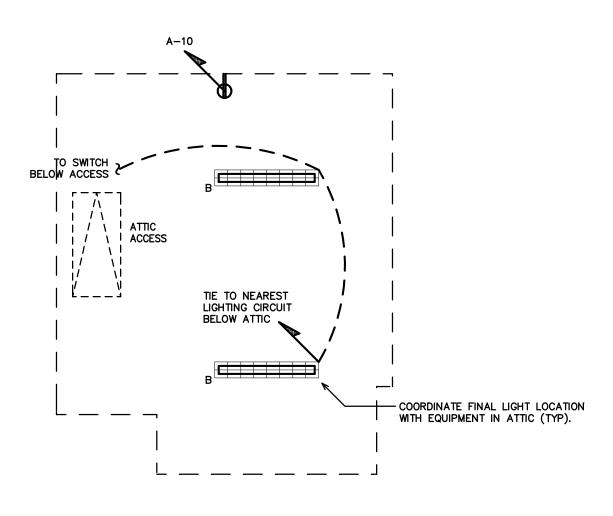
All information on this sheet is the property of



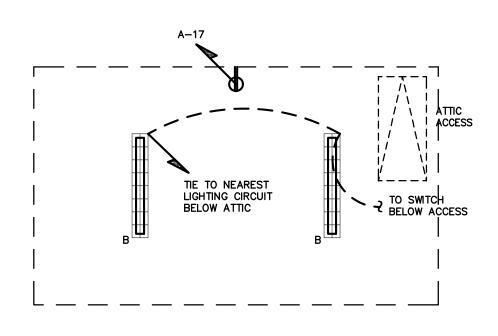




2 VENDING - REVISED PLAN
SCALE: 1/4" = 1'-0"







2 ATTIC ACCESS #2

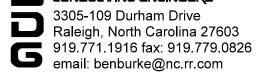
SCALE: 1/4" = 1'-0"

WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER





Corp. License # C-2652



Bur Burki

C93761FB80F34D5...

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE

CASWELL COUNTY

REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. **1504b**

DRAWING TITLE
VENDING AREA/ATTIC ACCESS
ELECTRICAL PLANS

E6

PLOT DATE

9/16/16

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

All information on this sheet is the property of

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016

REVISED PANEL	'D' MAKE: _	SQUARE D NQOD	I	MOUNTIN	120/240 1 G: <u>SURFACE</u> AIC: <u>VERIF</u>		E <u>3</u> WRE	MLO_MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUSXYES □NO SERVICE ENTRY RATED □YES XNO				
LOAD SERVICE	CKT BRKR		ER PHASE B		NEUTRAL A B	CKT NO	WATTS F	PER PHASE B	CKT BRKR	LOAD SERVICE		
AIR HANDLER	60A			1 7		2			20A 20A	LIGHTS DISPLAY AREA		
- Bathroom fan & ligh1				5		6			20A 20A	LIGHTS DISPLAY AREA PHOTOCELL LIGHTS COUNTERTOP		
EXIT & EMERGENCY LIGH				7		8			20A	TRACK LIGHTS		
REC. AT WATER COOLER	20A			9		10			20A	LIGHTS WORK ROOMS & OFFICE		
REC. AT WORK ROOM	20A			11		12			20A	LIGHTS HALL		
CAMERA	20A			13		14			20A	LIGHTS PORCH		
EWH-1	20A		1650	15		16			20A	REC. OFFICE		
AUTOMATIC DOOR OPENE	ER 20A	250		17		18			20A	REC. WORK ROOMS		
SPARE	20A			19		20			20A	REC. DISPLAY AREA		
SPARE	20A			21		22			20A	NEW CHILLER/VISITOR AREA		
SPARE	20A			23		24			30A	OUTSIDE UNIT		
SPARE	20A			25		26				_		
SPARE	20A			27		28		 	20A	SPARE		
SPARE	20A			29		30			20A	SPARE		
SPARE	20A			31		32			20A	SPARE		
SPARE	20A			33		34		+	20A	SPARE		
SPARE	20A 20A			35 37		36 38			20A	SPARE		
SPARE	20A 20A			39		40		 	20A 20A	SPARE		
SPARE SPARE	20A 20A			41		42		+		SPARE SPARE		
NOTES	SUB-TOTALS 'B'				×	BUS				TOTALS 'A'		
LOCKING BREAKER	20D-101VE2 D			KXXX		LUGS				TOTALS 'D'		
EXISTING BREAKER/CIRC	UIT TO REMAIN					FEED		 		TOTAL CONNECTED LOAD		
NEW/REVISED BREAKER						SIZE	A	A		/PHASE		

Caswell E7	, N	MAKE: _C	CUTLER HA	AMMER R	ATING:_	120/240	1 PHASE	<u>3</u> WIRE	MLO_MAI	N CIRC	UIT BREAKE	:R	
NEW PANEL-	SP I	TYPE: _£	PRL1A	I w	OUNTIN	G: SURFACE	•		EQUIPMENT				□N0
		OR AP	PROVED E			AIC: VERI			SERVICE EN				
LOAD	•	CKT	WATTS P	ER PHASE	СКТ	NEUTRAL	CKT	WATTS F	PER PHASE	CKT		LOAD	
SERVICE		BRKR	Α	В	NO	A B	NO	A	В	BRKR		SERVICE	
ERV-1		054	1919		1		2	4332		F0.4	AHU-2		
•		25A 1919		1919	3		4		4332	50A			
HP-2		7E A	2148		5		6	1919		OFA	ERV-2		
•		35A		2148	7		8		1919	25A			
SPARE		20A			9		10			20A	SPARE		
SPARE		20A			11		12			20A	SPARE		
SPARE		20A			13		14			20A	SPARE		
SPACE					15		16				SPACE		
SPACE					17		18				SPACE		
SPACE					19		20				SPACE		
SPACE					21		22				SPACE		
SPACE					23		24				SPACE		
SPACE					25		26				SPACE		
SPACE					27		28				SPACE		
SPACE					29		30				SPACE		
NOTES	SUB-TOTA	ALS 'B'	4067	4067	\bowtie	_100A_	BUS	6251	6251	SUB-	TOTALS 'A'		
	•	'			1000	_100A	LUGS	4571	4571	SUB-	TOTALS 'B'	1	
					100A		FEED	10822	10822		TOTAL	TOTAL CONNECTED LOAD	
						VERIFY	SIZE	90A	90A	AMPS	/PHASE	1	
NEC ALLOWABL	E DEMAND F	ACTO	RS	DIVERS	IFIED	LOAD SUN	IMARY						
1) DEMAND FACTO	ORS PER NEC 22	20		LOAI) TYPI		DEMAND	A	В	TOTAL	. DIVERSIFIE	TO LOAD	
\sim	NEC TABLE 220.		-	GENERAL			FACTOR① 125%		 	IOIAL		D LOND	
CONNECTED LO				TRACK LIG	HTING		125%						
(3) NEC TABLE 22	0.56			GENERAL		<u> </u>	0KVA@100%						
4 NEC 220.51			}	MOTORS A		ARGEST >	0KVA © 50%	 2685	2685		5370		
(5) NEC 220.43A,	200 VA/LINEAR	FT		EQUIPMEN	_	L OTHERS	100%	8170	8170		16340		
Q	NT LOADS, LARG		İ	WATER HE		LE OTTLENO	125%						
OF THE TWO L	OADS IS COUNTE		[KITCHEN E	QUIPME		100%						
			[FIX. ELEC.			100%						
			-	SHOW WIN	DOW LIG	HTS 📵	125%						
			}	SIGN			125% 100%						
			ł			PHASE (TO	TAL VA)	10855	10855		21710		
							TOTAL AMPS	91A	91A		T AMPC	= 91A	TOTAL AMPS

NEW PANEL— 'D	,	TYPE: 🗆	CUTLER HA PRL1a PROVED EC		RATING:_ MOUNTING MINIMUM	G: FLUS	H- '	<u>VERIFY</u>		30A_MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUSXYES □NO SERVICE ENTRY RATED □YES XNO				
LOAD SERVICE		CKT BRKR	WATTS PE A	R PHAS	E CKT NO	NEUTF A	RAL B	CKT NO	WATTS F	PER PHASE B	CK' BRK		LOAD SERVICE	
LIGHTS		20A	52		1		1	2	1000		20/	REC- VENI	DING	
SPARE				-	3		\frown	4		1000		REC- VENI	DING	
SPARE		\			5		1	6	1000			REC- VEN	DING	
SPACE					7			8		1000		REC- VENI	DING	
SPACE					9			10				SPARE		
SPACE					11			12			V	SPARE		
NOTES	SUB-TOT	ALS 'B'	52		\longrightarrow	_100	A	BUS	2000	2000	SUE	-TOTALS 'A'		
NEMA 3R						_100	A	LUGS	52		SUE	-TOTALS 'B'	TOTAL CONNECTED LOAD	
LOCKING COVER						_30/		FEED	2052	2000	TIOTAL COMMECTED LUAD			
									S/PHASE					

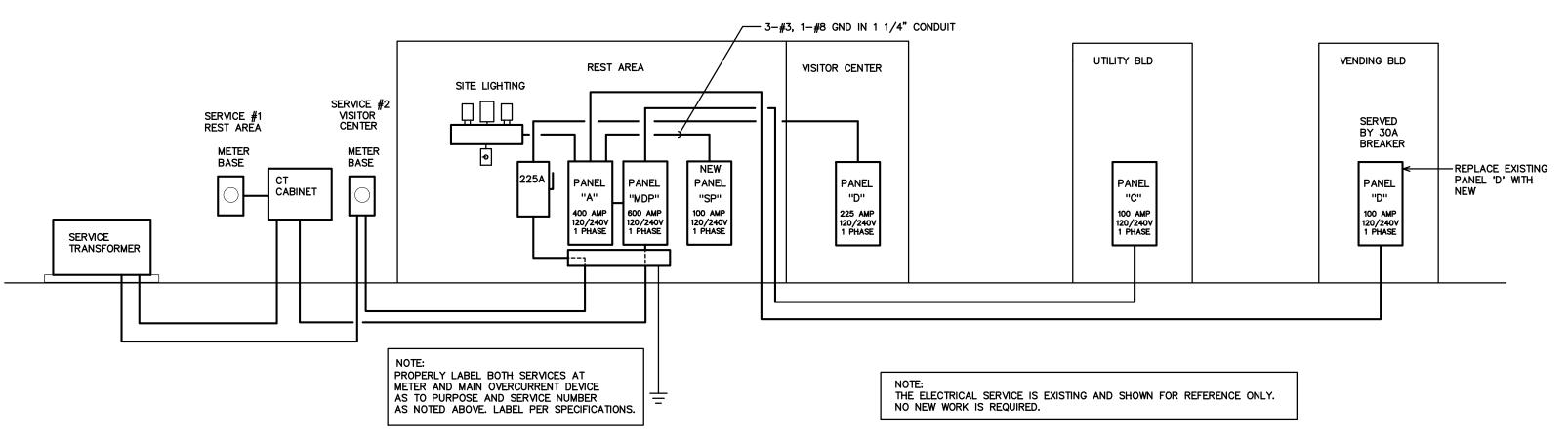
EXISTING PANEL MDP TYPE: HCW MOUNTI					120/240 G: <u>SURFA</u> (HASE 3 WRE MLO MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS XYES XIO				
				MINIMUM	AIC: <u>VEF</u>	RIFY		SERVICE ENTRY RATED _			□YES ⊠NO
LOAD	CKT	WATTS PI	ER PHASI	CKT	NEUTRA	L CKT	WATTS	PER PHASE	CKT		LOAD
SERVICE	BRKR	Α	В	NO	A B	NO	Α	В	BRKR		SERVICE
PANEL A	400A	30952		1		\bigcirc 2			100A	SPARE	
•	4 00A		33287	3					1 1004		
PANEL C	100A	360		5		\bigcirc 6			225A	SPARE	
(UTILITY BLD)	1004		200	7		\bigcirc 8			2254	 .	
SPACE				9		<u> </u>				SPACE	
SPACE				11		12				SPACE	
SPACE				13		14				SPACE	
SPACE				15		<u> </u>				SPACE	
SPACE				17		<u> </u>				SPACE	
SPACE				19		$\overline{}$ 20		 		SPACE	
NOTES SUB-TO	TALS 'B'	31312	33487		600A	BUS			SUR—	TOTALS 'A'	
10120	TALES E	1 31312	1 33407	11100			31312	33487		TOTALS 'B'	
					600A	FEED	31312	33487		O TOTAL	TOTAL CONNECTED LOAD
					VERIFY	SIZE	261A	279A		/PHASE	
NEC ALLOWABLE DEMAND	FACTO	RS	DIVER	SIFIED	LOAD SU				7 0	TTINOL	
① DEMAND FACTORS PER NEC			LOA	D TYPI	E	DEMAND FACTOR①	Α	В	TOTAL	. DIVERSIFIE	D LOAD
② LARGEST OF: NEC TABLE 22 CONNECTED LOAD	0.12 OR	[LIGHTING	<u> </u>		8784	8338		17122	
(3) NEC TABLE 220.56		-	TRACK L			125% ≤10KVA 9 100%	 1440	720		2160	
			RECEPTA			>10KVA@50%		720			
④ NEC 220.51		İ	MOTORS	AND LA	ARGEST	125%	2685	2685		5370	
⑤ NEC 220.43A, 200 VA/LINEA	R FT		EQUIPME		LL OTHERS	100%	14650	14650		29300	
(6) NON-COINCIDENT LOADS, LARGEST WATER HE/						125%	2813	2813		5626	
OF THE TWO LOADS IS COUNTED KITCHE						100%		<u> </u>			
		SPACE		100% 125%		 					
SHOW WINDOW					HTS 6	125%			-		
MISC						100%	4661	6545	-	11206	
					PHASE (TOTAL VA)	35033	35751		70784	
	•	TOTAL AMPS	292A	298A		LT AMPS VOLTS	= 295A TOTAL AMPS				

EQUIPMENT WIRING SCHEDULE											
EQUIPMENT	MCA	моср	VOLTS	PH	WIRE SIZE						
AHU-1	44.7A	50A	208V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT						
ERV-1	18.5A	25A	208V	1	2-#10, 1-#10 GND IN 1/2" CONDUIT						
HP-1	22.1A	35A	208V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT						
AHU-2	44.7A	50A	208V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT						
ERV-2	18.5A	25A	208V	1	2-#10, 1-#10 GND IN 1/2" CONDUIT						
HP-2	22.1A	35A	208V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT						
EWH-2	(4.5KW)	30A	208V	1	2-#10, 1-#10 GND IN 1/2" CONDUIT						

NOTE: THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH—IN AND RELEASING GEAR. ADJUST BREAKER, WRE SIZES, ETC. AS REQUIRED.

EXISTING PANEL 'A	' I					RFACE E			MLO_MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS ⊠YES □NO SERVICE ENTRY RATED □YES ⊠NO		
LOAD SERVICE	CKT BRKR	WATTS PE	R PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS F	PER PHASE B	CKT BRKR		LOAD SERVICE
INDOOR UNIT WITH STRIP	60A			1 3		2					WOMANS & STORAGE
WATER HEATER	50A			5 7		6 8			20A	LTS: S.W.	MENS & ATTIC MENS & STORAGE
CONDENSING UNIT	50A			9		10				INLINE FAN	
SPARE	20A			13		14				RECP: WC	
HAND DRYER, WOMENS	20A			15		16					ER, WOMENS
RECP: WOMENS	20A			17		18			20A	RECP: MEN	IS & STORAGE
HAND DRYER, MENS	20A			19		20			20A	RECP: MEN	IS
HAND DRYER, MENS	20A			21		22			20A	ELECTRIC V	VATER COOLER
FIRE ALARM CONTROL PANEL	20A			23		24			20A	MENS TOIL	ET SENSORS
LTS: HALL	20A			25		26			20A	INLINE FAN	
SPARE SPARE	20A 20A			27		28 30			30A	LTS: SITE	
LTS: HALL	20A			31		32				LTS: POST	TOP
LTS: EMERGENCY & EXIT	20A			33		34			30A	 .	
LIGHTING CONTROLS	20A			35		36			704	LTS: SITE	
VENDING SHELTER PANEL 'D'	30A			37		38			30A		
•				39	\cap	40			30A	LTS: SITE	
RECP: FOUNTAIN	20A			41		42					
<u>NOTES</u>	UB-TOTALS 'B'			\bowtie	-100/	BUS				TOTALS 'A'	
LOCKING BREAKER					7007	LUGS FEED				TOTALS 'B' D TOTAL	TOTAL CONNECTED LO
					- 1 00A	SIZE	A	A		/PHASE	1

Caswell E7 DEVICED DANIEL *	A' I	SQUARE D	[R	RATING: <u>120/240</u> 1 PHASE <u>3</u> WIRE								
REVISED PANEL '	A TYPE: _1	NQOD	N	MOUNTING		EQUIPMENT GROUND BUSXYES □NO						
			M	MINIMUM AIC: <u>VERIFY</u>				SERVICE EN	NTRY R	ATED	□YES ⊠NO	
LOAD	CKT	WATTS P	ER PHASE	CKT	NEUTRA	L CKT	WATTS	PER PHASE	CKT		LOAD	
SERVICE	BRKR	Α	В	NO	A B	NO	Α	В	BRKR		SERVICE	
AHU-1	E04	4332		1		<u> </u>	209		20A	LTS: MEN,	WOMEN, & FAMILY	
•	50A		4332	3		<u> </u>		326	20A	LTS: LOBB	Υ	
EWH-2	30A	2250		5		\bigcirc 6	256		20A	LTS: ELEC	& STORAGE	
•	JUA		2250	7		<u> </u>		144	20A	LTS: MEN	& WOMEN	
HP-1	754	2148		9		\bigcirc 10	360		20A	RECP: EXT	ERIOR & ATTIC	
•	35A		2148	11		<u> </u>		180	20A	WOMANS T	OILET SENSORS	
SPARE	20A			13		14	720		20A	RECP: ST	TORAGE	
HAND DRYER, WOMENS	20A		1920	15		<u> </u>		1920	20A	HAND DRY	ER, WOMENS	
RECP: STORAGE & ATTIC	20A	180		17	\cap	<u> </u>	250		20A	AUTOMATIC	DOOR OPENER(S)	
HAND DRYER, MENS	20A		1920	19		<u> </u>		720	20A	RECP: STO	• • • • • • • • • • • • • • • • • • • •	
HAND DRYER, MENS	20A	1920		21		<u></u>	888		20A	ELECTRIC V	WATER COOLER	
SPARE	20A			23		<u></u>		180	20A	MENS TOIL	ET SENSORS	
(CP) CIRCULATING PUMP	20A	500		25		<u> </u>	720		20A	REC		
PANEL 'SP'	1004		10822	27		<u> </u>		1500	704	LTS: SITE		
	100A	10822		29		<u> </u>	1500		30A	 .		
SPARE	20A			31		<u> </u>		1500		LTS: POST	ТОР	
LTS: EXTERIOR	20A	728		33	\cap	<u> </u>	1500		30A	 .		
LIGHTING CONTROLS	20A		50	35		<u> </u>		1500	704	LTS: SITE		
VENDING SHELTER PANEL 'I	D' 704	125		37	$\overline{}$	<u> </u>	1500		30A	 .		
•	30A		125	39		<u> </u>		1500	704	LTS: SITE		
RECP: FOUNTAIN	20A	180		41		√ 42	1500		30A	 .		
NOTES	SUB-TOTALS 'B'	22685	23817		_400A	BUS	8433	9470	SUB-	TOTALS 'A'		
LOCKING BREAKER					400A		LUGS	22519		SUB-TOTALS 'B'		,
GFCI BREAKER	TO DELLAND				400A	FEED	30952	33287) TOTAL	TOTAL CONNECTED LOAD	
EXISTING BREAKER/CIRCUIT NEW/REVISED BREAKER/CIR					VERIFY	SIZE	 	277A	AMPS	/PHASE	1	
NEC ALLOWABLE DI		PS.	DIVERS	IFIFD	LOAD SU		ı			,	•	
				-		DEMAND	I	1	1			
1) DEMAND FACTORS F			LOAI	D TYPI	E	FACTOR ①	Α	B	TOTAL	. DIVERSIFIE	ED LOAD	
(2) LARGEST OF: NEC CONNECTED LOAD	TABLE 220.12 OR		GENERAL		<u> </u>		8784	8088		16872		
(3) NEC TABLE 220.56			TRACK LIC GENERAL			125% ≤10KVA © 100%	1080	720		1800		
(4) NEC 220.51			RECEPTAC	LES		>10KVA@50%						
(5) NEC 220.43A, 200	VA/LINEAR FT		MOTORS A	- ⊢	ARGEST LL OTHERS	125% 100%	2685 14650	2685 14650		5370 29300		
6) NON-COINCIDENT LO	•		WATER HE		L UIHERS	125%	2813	2813		5626		
OF THE TWO LOADS	•		KITCHEN E	EQUIPME								
			FIX. ELEC.									
			SHOW WIN	DOW LIG	HTS ⑤	125% 125%		 	-			
			MISC			100%	4661	6545		11206		
					PHASE (TOTAL VA)	34673	35501		70174		
		•				TOTAL AMPS	289A	296A		LT AMPS VOLTS	= 292A TOTAL AMPS	



VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING.
EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.



WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER

BURKE DESIGN GROUP, Pa CONSULTING ENGINEERS

3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com

Corp. License # C-2652



Ben Burke C93761FB80F34D5...

11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA US 29

PELHAM, NORTH CAROLINA

PROJECT NO. 1504b

DRAWING TITLE PANEL SCHEDULES SERVICE RISER



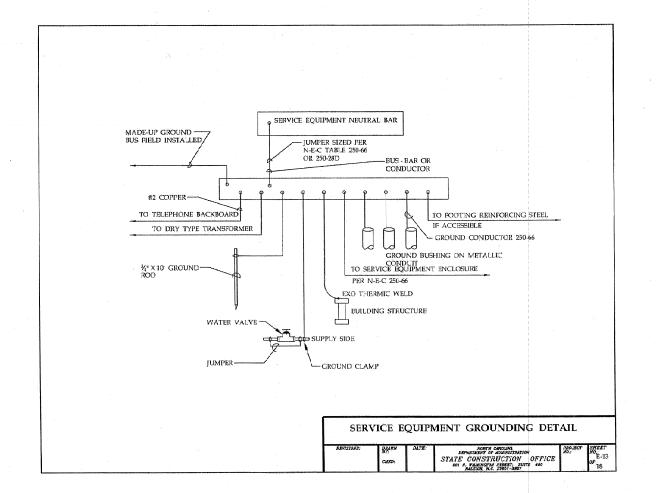
PLOT DATE

9/16/16

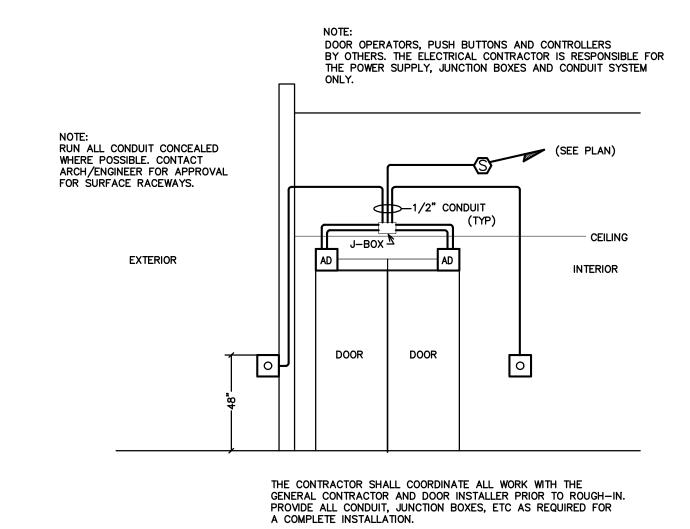
This original sheet is 22" x 34"; other dimensions indicate it has been altered.

All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016

DocuSign Envelope ID: AD626670-7005-4A19-A38D-DC6365AD0DE1



GROUNDING / BONDING DETAIL
SCALE: NOT TO SCALE



ADA DOOR CONTROL DETAIL

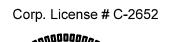
SCALE: NOT TO SCALE

WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com

ENGINEER







Ben Burke C93761FB80F34D5... 11/5/2016

STATE ID# 16-16107-01A WBS ELEMENT 51213.022

PROJECT TITLE CASWELL COUNTY REST AREA

US 29 PELHAM, NORTH CAROLINA

PROJECT NO. 1504b

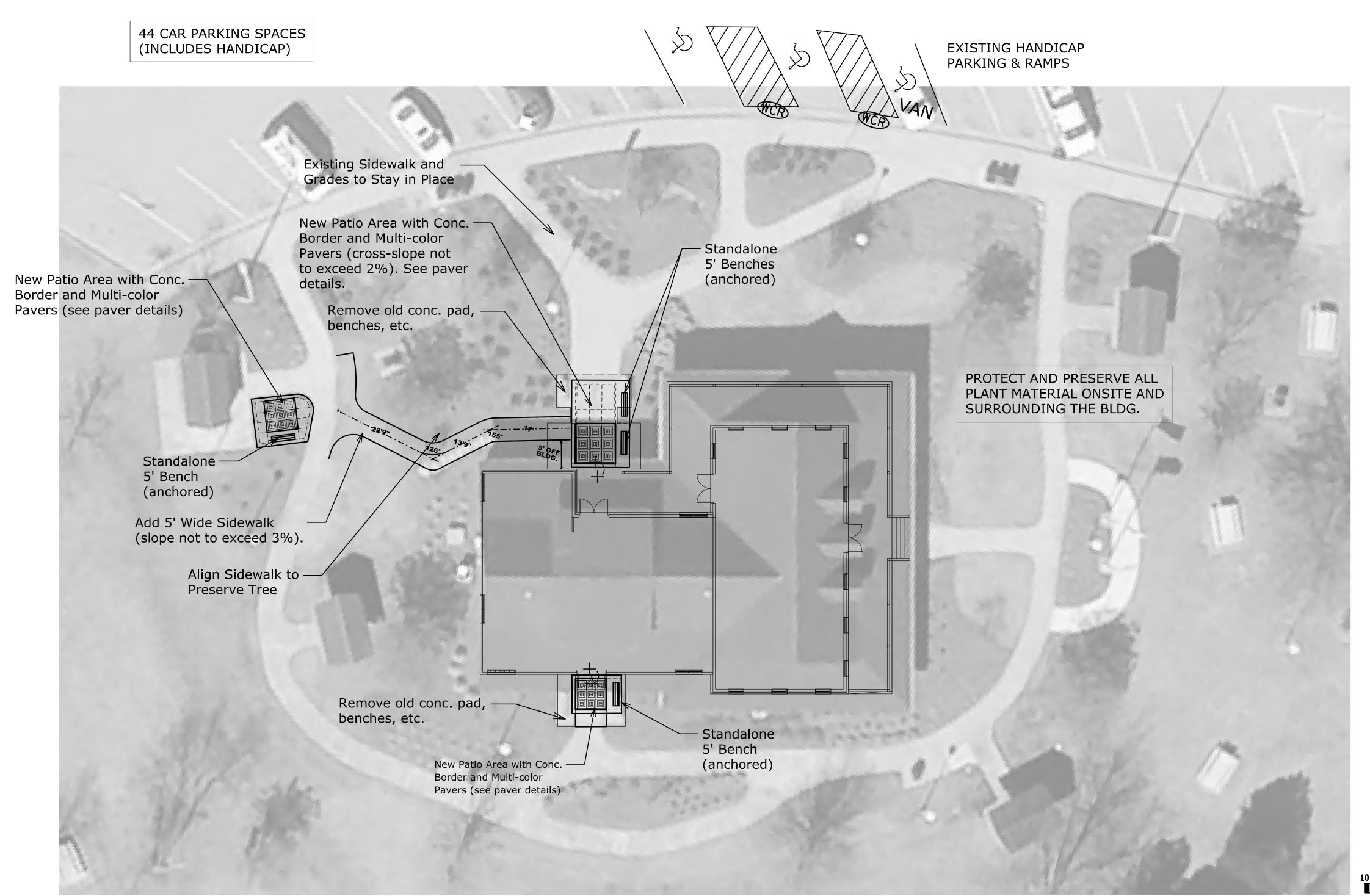
DRAWING TITLE

MISC ELECTRICAL DETAILS

PLOT DATE

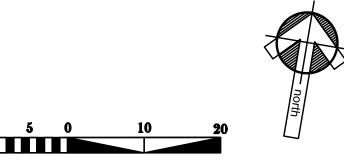
9/16/16

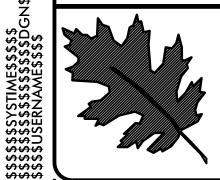
This original sheet is 22" x 34"; other dimensions indicate it has been altered. All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2016





- 1) SITE/VISITOR CENTER TO REMAIN OPEN DURING CONSTRUCTION.
- 2) CONTRACTOR SHALL COORDINATE STAGING & STORAGE AREAS WITH NCDOT ROADSIDE ENG.
- 3) CONTRACTOR IS RESPONSIBLE FOR THE SAFETY AND SECURITY OF ALL PROPERTY AND MATERIALS.
- 4) ANY VEGETATION DAMAGED DURING CONSTRUCTION SHALL BE REPLACED INKIND.
- 5) CHECK WITH NCDOT ENGINEER ON EXTENT OF CONC. REMOVAL OUTSIDE BUILDING.





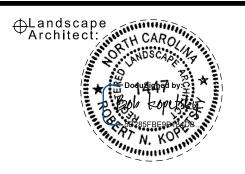
NCDOT - Roadside Environmental Unit Landscape Design & Development

1557 Mail Service Center Raleigh NC 27699-1557 PH: 919-707-2920 fax: 919-215-2554

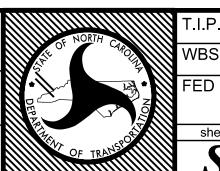
http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

Caswell County
Rest Area Renovation

project #: 51213.022



on:	prel. design date :	NOV/2016	Rest Area Renovation
escriptio	checked by & date :		Site Development Plan
eet d	final design date :	11-3-16	



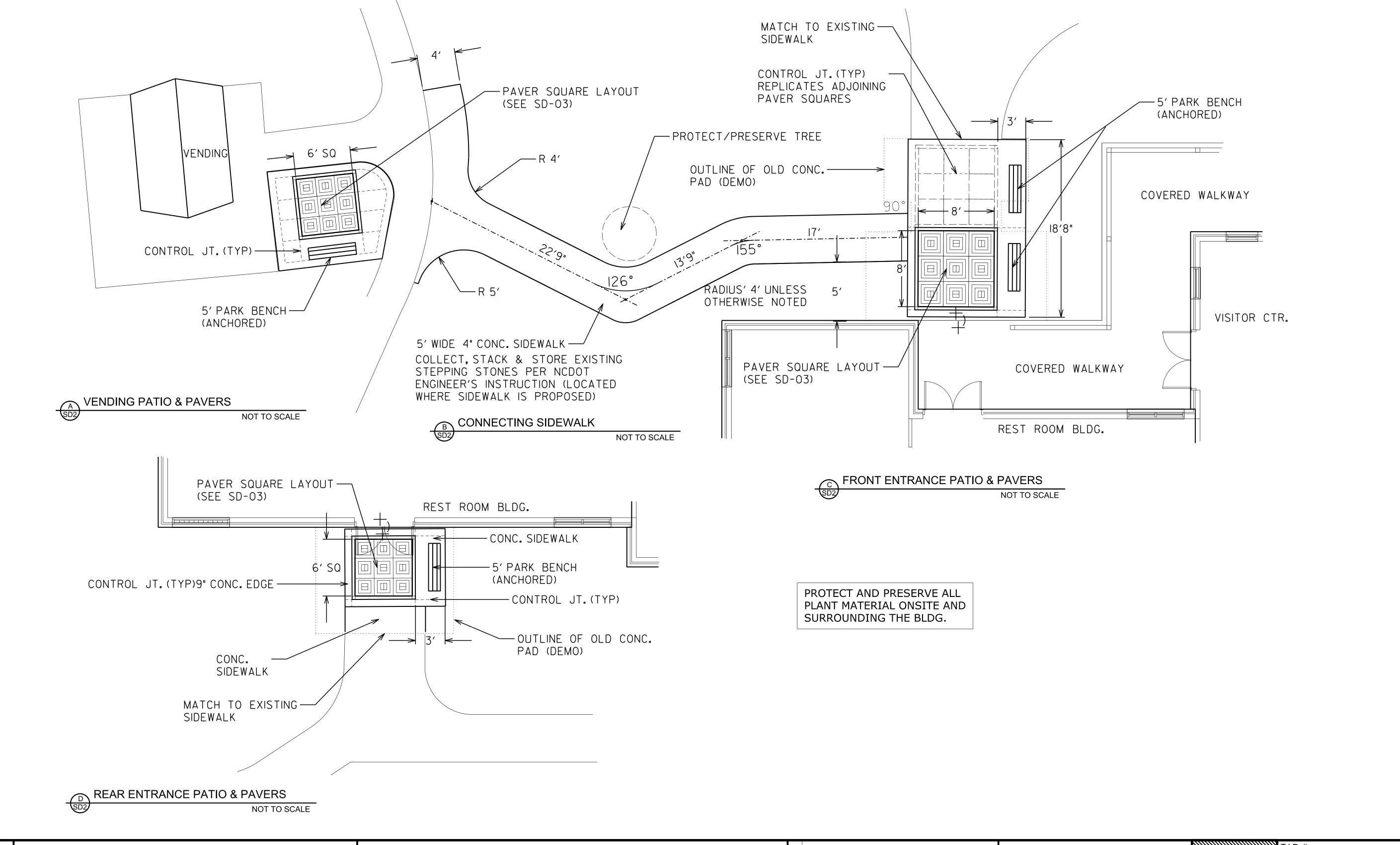
T.I.P. #

WBS # 51213.022

FED I.D. #

sheet no: total sheet no:

SD 01





\$\$\$\$\$\$\$\$YSTIME\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$USERNAME\$\$\$\$ NCDOT - Roadside Environmental Unit Landscape Design & Development

1557 Mail Service Center Raleigh NC 27699-1557 PH: 919-707-2920 fax: 919-215-2554

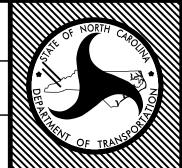
http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

Caswell County Rest Area Renovation

project #: 51213.022



on:	prel. design date :	NOV/2016	Rest Area Renovation
escription	checked by & date :		Site Layout Details
neet d	final design date :	11-3-16	

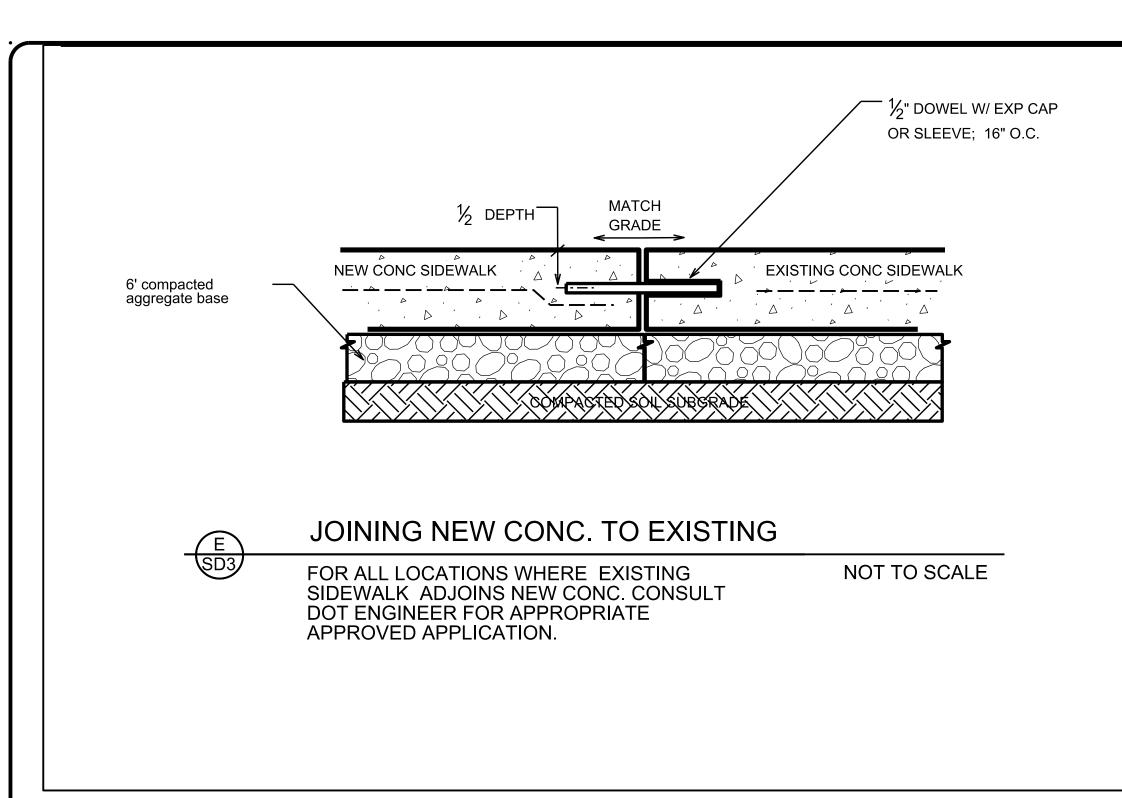


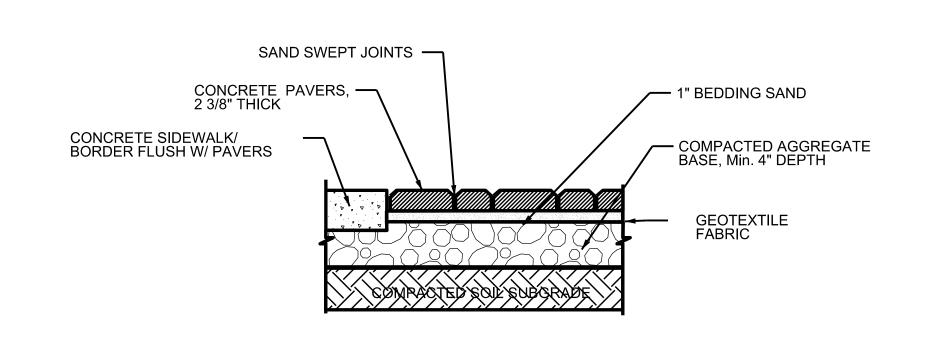
T.I.P. #

WBS # 51213.022

FED I.D. #

sheet no: total sheet no:





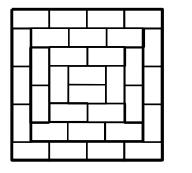
PAVER INSTALLATION DETAIL NOT TO SCALE

> **OUTER BORDER IS A RUNNING** BOND WITH COLOR OF BRICK (OF THE 9) WITH CLOSEST MATCH TO THE COLOR OF BRICK ON THE BUILDING; 4" x 4" CORNER BRICK ARE DARKEST BRICK OF NINE USED (CAN NOT BE SAME AS RUNNING

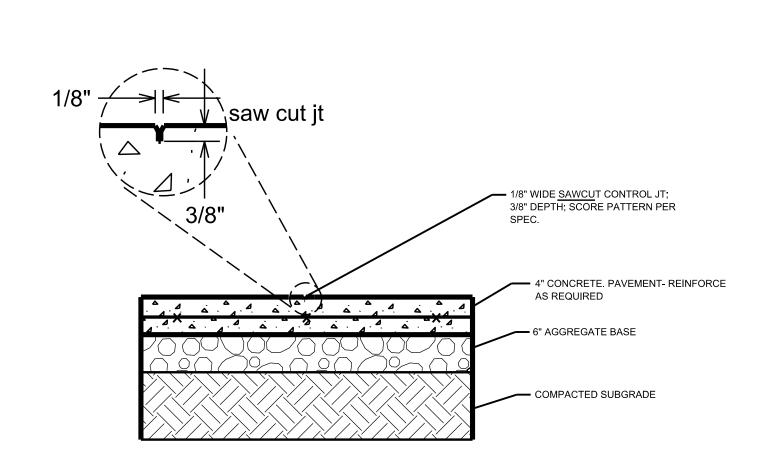
> > 9" CONC. BORDER (6" DEPTH; EXPANSION

JTS. EVERY 30')

BOND EDGE).



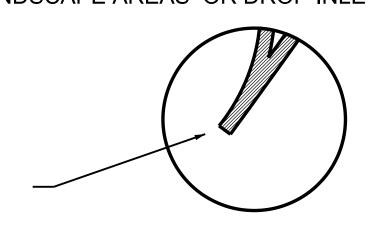
ONE BLOCK





GENERAL NOTES:

- 1) SIDEWALK AS SPECIFIED BY SITE/HARDSCAPE PLANS.
- 2) CONCRETE/ PAVER AREA AS SHOWN WITH 9" CAST IN PLACE CONCRETE BORDER UNLESS OTHERWISE SPECIFIED . PAVERS TO BE A BLEND, COLOR, AND SIZE AS SPECIFIED.
- 3) STANDARD 4" THICK CONCRETE SIDEWALK; CONTROL JÓINT EVERY 5' (OR AS NOTED) AND EXPANSION JOINT EVERY 30'.
- 4) ALL HARDSCAPE SURFACES SHALL BE GRADED PROPERLY TO DRAIN TO DESIGNATED LANDSCAPE AREAS OR DROP INLETS.





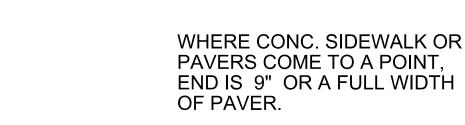
— 4" X 8" PAVERS

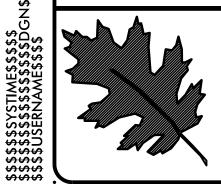
9 DIFFERENT COLORS

(EACH BLOCK A DIFFERENT COLOR)

SEE OLD SERIES PAVERS OFFERED BY PINE HALL BRICK AS AN EXAMPLE

OF COLOR VARIATIONS





NCDOT - Roadside Environmental Unit Landscape Design & Development

1557 Mail Service Center Raleigh NC 27699-1557 PH: 919-707-2920 fax: 919-215-2554

http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/

Caswell County Rest Area Renovation

51213.022 project #:



. 40		NOV/2016	Rest Area Renovation
escriptic	checked by & date :		PAVEMENT DETAILS
h t	final design date :	11-3-16	

PAVERS TO MATCH GRADE AT

ADJACENT PAVEMENT



51213.022 ED I.D.#

SD 03